

QUERY

UniRef90_M1J1K0
UniRef90_A0A023CPI5
UniRef90_D1C3L6
UniRef90_I2F503
UniRef90_K6WP56
UniRef90_E9T3Q3
UniRef90_E1R3T3
UniRef90_UPI00040AE0F2
UniRef90_V9XIZ6
UniRef90_A5D1V5
UniRef90_H0UP07
UniRef90_J3EWT6
UniRef90_U4K7C7
UniRef90_F4D0K4
UniRef90_W5X7C0
UniRef90_A7RU77
UniRef90_Q15T48
UniRef90_UPI00037ACFA2
UniRef90_F0L980
UniRef90_S4RAN6
UniRef90_X1IA18
UniRef90_Q0AVY8
UniRef90_D5BTM6
UniRef90_G0LKQ0
UniRef90_D1C8P8
UniRef90_UPI000375F3F2
UniRef90_M3YQH7
UniRef90_M1ZMM0
UniRef90_X0TJL3
UniRef90_W4LG84
UniRef90_UPI00041B3319
UniRef90_V2YDY1
UniRef90_V6M828
UniRef90_W6KA45
UniRef90_UPI0003B6285C
UniRef90_G8ALR5
UniRef90_B6ISQ9
UniRef90_B9KYN1
UniRef90_F0QY92
UniRef90_F0ZAV7
UniRef90_UPI0004179501
UniRef90_B3SQ07
UniRef90_14F485
UniRef90_UPI0003B6B59F
UniRef90_UPI00047216DF
UniRef90_UPI00046CEB1D
UniRef90_A6CZ74
UniRef90_UPI00045736EE
UniRef90_UPI0003B3F497
UniRef90_Q0FEV0
UniRef90_UPI0004160294
UniRef90_D1C8T2
UniRef90_UPI00042BB4EE
UniRef90_UPI0003F0F15B
UniRef90_D5WCP2
UniRef90_A1ZT82
UniRef90_K9DE46
UniRef90_A3V9T3
UniRef90_A3THD0
UniRef90_UPI0003C2AA57
UniRef90_UPI00016213B7
UniRef90_E8TAC2
UniRef90_Q89JR3
UniRef90_T0ILL0
UniRef90_W9V6H3
UniRef90_Q01QE1
UniRef90_A5YJ06
UniRef90_E8N1K7
UniRef90_UPI00047975CE
UniRef90_O44233
UniRef90_H5YFC6
UniRef90_N1MVJ7
UniRef90_UPI0002F20A61
UniRef90_I4C689
UniRef90_UPI00046EDE67
UniRef90_A0A024UBK6
UniRef90_A0A059ABH0
UniRef90_R7V9A5
UniRef90_I00A2
UniRef90_X1SFW6
UniRef90_L5NAH6
UniRef90_D2S099
UniRef90_A1AP96
UniRef90_J6UBS2
UniRef90_UPI0004764FF6
UniRef90_R1D2U1
UniRef90_D2B3U3
UniRef90_R9VD78
UniRef90_X6GMH3
UniRef90_U6P285
UniRef90_B9HNV5

	1	10	20	30	40
A P D G T L S A	L Q E G F R M M H G	L Q C G Y C T P G M I	I M R S H R L L Q E N P		
S K D G K L H P I	Q E A F W E N H A L	Q C G Y C T P G M I	M E S Y W L L K E K P P		
K D G E M H P L	Q K A F W E E H A L	Q C G Y C T P G M I	M A S Y A L L Q N N P P		
A K D G Q L H P I	Q E G F W E M H G L	Q C G Y C T P G M I	M T A Y D L L Q K N P P		
G R L H P I	Q Q A F I D E G A I	Q C G Y C T P G M I	M S T I D L L G D N P P		
A R D G T L H P V	Q Q E A F R D N H A L	Q C G Y C T P G M I	V T T I A A F I E E N P		
P D G T L H P V	Q Q Q A F V D C H G L	Q C G F C T P G M V	M S A Y A L L L R E K P		
P D G S L H P I	Q Q S F I D C H G A I	Q C G F C T P G M I	T R A Y R L L K E N P		
A Q D G Q L H A L	Q E G F M Q E H G L	Q C G F C T P G M I	M A T I D L L S E N S		
N G S L H P V	Q Q E A F R E K H A L	Q C G F C T P G M I	M S A K G L L D R N P P		
P D G T L H P I	Q Q A F V D H G A I	Q C G F C T P G M V	V L A V Y D L L K R N P P		
S K D G K L H P V	Q Q A F I E E G A I	Q C G F C T S G F V	M A T R E L L D E H P P		
A D D G E L H P I	Q Q E A F H E E H A L	Q C G F C T P G G F I	M S M F A L L K N R P P		
P S G G C L H P V	Q Q Q A M V E F H G S	Q C G F C T P G G F I	M S M F A L L Y Q Q G S P		
A R D G E L H P V	Q Q K A F N E C H G L	Q C G Y C T P G G M I	M A A V D L L G D N P P		
A N G D A L H P V	Q Q A A F I K H D G F Q	Q C G Y C T P G Q I	M S A V A C I Q E G H		
K D D G F H A I	Q Q E A F H E E H A L	Q C G Y C S P G M V	V M N M Y G L L K T N A S		
A D G E T L H P V	Q Q A A M V D A H G S	Q C G F C T P G F V	M S M F A L L Y Q Q G S P		
A R D G E L H P V	Q Q R A F S T S H A L	Q C G F C T P G G M I	M Q S I D L L A E N P		
R D G T L H P V	Q Q A M V D F H G S	Q C G F C S P G F I	M S L Y G L W L A S E		
P V Q Q Q R L V D H G I	Q C G Y C S P G F V	M Q M Y S L L A S N P			
A R G D E L H P L	Q Q K A F L K N G A V	Q C G F C T P G M I	L T A T A L L K E N P		
S S G K K L H P I	Q Q A F V D K G A V	Q C G F C S P G M L	M A T V D F L Q R N P		
P D G E L H P C	Q Q A M V D F H G S	Q C G F C T P G F V	M S L Y A A W C N Q D		
S E N G S L H P V	Q Q Q A F H E S H A L	Q C G F C T S G F V	V M S T Y D L L T D N P		
Q N G E L H P V	Q Q E G F W Q E H G L	Q C G F C T P G M M M T A V A L L E R N P			
A K D G A L H P V	Q Q Q A M V D Y H G S	Q C G F C T P G I V M S L Y G L W L S K D			
R I H P V Q E R I A K C H G T Q	Q C G F C T P G M V	M S L Y T L L R N H P			
K L H P V Q E R I L V K A H G S Q	Q C G F C T P G M V	M S M Y T L L R N N P			
R N G E L H P I	Q Q E A F A E Q H A V	Q C G Y C T P G G L	M S T H A L L Q E N S		
A S D E A L H P I	Q Q Q A F I D Y G G F Q	Q C G I C T P G G M I	M A T K A L L D D N P		
A H N G V L H P V	Q Q H F A D N H A S Q	Q C G F C S P G F I	M S A F A L L Q K S A A		
G Q L H P I	Q Q Q A F I T C H G A V	Q C G F C S P G F I	M S A Y A L L K S N P		
E D G S L H P L	Q Q Q F S D N H A L	Q C G F C T P G F M M T L V D F L	Q E N P		
A G P G D L T P V	Q Q K A F Y K T G A S Q	Q C G Y C T P G G M V	M A A T A T L R A N P		
A T D G Q L H P L	Q Q M Q A A F R E H G L	Q C G F C T P S G M V	M Q S V S L L A E N S		
A A D G T L H P L	Q Q M Q A A F R E H G L	Q C G F C T P S G M V	M S A V D L L T A N P		
A P D G A L H P L	Q Q M Q A A F R E N H G L	Q C G F C T P G M V	M S A V E L L H R T P		
E L H P L	Q Q Q A F W E K H G L	Q C G Y C T P G M L	M V L K A F L A E N P		
S K G M E L H P I	Q Q R A F L E E Y A M Q	Q C G F C T H G F M M T H D Y L	L T N D P		
R D G H P V	Q Q Q A I V D A H G S Q	Q C G F C T P G G I	M A L Y A Y L R S N P		
P D G R L H P V	Q Q Q A I V D A H G S Q	Q C G F C T P G G F I	V M S L F A L Y H R D G P		
K L H P I	Q Q E R I A K V H G T Q	Q C G Y C T P G G F I	V M S M Y A L L R N N P		
A D D G R L H P L	Q Q Q A F R A E H G L	Q C G F C T P G M V	M A A V G V L A D N P		
E L H P L	Q Q Q A F V R H D G F Q	Q C G Y C T T S G Q I	M S A L A L L D E G R		
A L H P L	Q Q Q W F I R K H A V	Q C G Y C T P G F G L	M L L S A A A L L R R N P		
H P I	Q Q Q E A I V E F H G S Q	Q C G Y C T P G G M I	M S M F A L L T K N K P		
A D G Q L H P V	Q Q Q R L A D Y N G S Q	Q C G F C T P G F G L	V M Q M Y G F L K N N P		
N G D L H P V	Q Q Q A M V E C H A S Q	Q C G F C T P G G F I	V M S S I D L L K H N P		
A D G S L H P M Q A A F R E C H G L	Q C G F C T P G G M V	M S S Y A L L Q E N P			
A Q N G Q F H K L Q Q A F W E N H A L	Q C G F C T P G F G L	M S S Y A L L R N N P			
R V H P V Q E R I L A K C H G S Q	Q C G F C T P G G M V	M S S Y A L L R N N P			
R L H P V Q E R I A K A H G S Q	Q C G F C T P G G I	M S S M Y T L L R N N P			
P D G S L H P V Q Q A M V D C H G S Q	Q C G F C T P G F G I	M S M W A L L Y E K H G			
A K G N T L H A V Q Q A W I D V P	Q C G Y C Q S Q G I	M S A V A L L S K N S R			
A D G A L H P V Q Q Q A L V E C H G S Q	Q C G F C T P G F G I	M S A V A L L W G M Y Q E G R			
A P D G E M H P V Q Q A M V E H H G S Q	Q C G F C T P G F G I	V V S M A V G Q Q			
A S N G E L H P M Q Q K A F H E C H A L	Q C G Y C T P G G M I	M Q A I D V L N E N P			
S P K T R I H P V Q E R L A K C H G S Q	Q C G F C T P G G M V	M S M Y T L L R N H L			
L L H P I	Q Q Q E A L A S A H G S Q	Q C G F C T P G F V	M S M Y S L L R K K D		
G Q L H P V Q Q A M V D F H G S Q	Q C G F C T P G F G V	V M S L Y G L W M K S P			
A R D G A L H P L Q Q A F I D H D A F Q	Q C G Y C T P G G Q I	C S A A G L L A E G R			
S D G E G L H P M Q Q A F I D H D A L	Q C G Y C T P G G Q I	M A A V A L V N E G N P			
G E L H P V Q Q A M V D H A S Q	Q C G Y C T P G G Q I	M A A V A L V N E G N P			
A P E G K L H P V Q Q A F L D A D A L	Q C G Y C T P G G M I	L G A V A L L K R T P			
A P D G T L H P V Q Q A M V D L H G S Q	Q C G F C T P G G F V	M S M V A Y R K Q P G			
A K N G Q L H P L Q Q E A I I E T G V Q	Q C G F C T P G G I	M S S R A L L N R N P			
A P D G G L H P V Q Q R A L V D H G S Q	Q C G F C T P G G F V	M Q L Y A A W L T G E			
S T Q D R L H P V Q E R I A K S H G S Q	Q C G F C T P G G I	V M S M Y A L L R N N N H			
A T D D D H L H P M Q Q A F V D N D A F Q	Q C G Y C T P P G Q I	M S A V A C V K E G H			
A P G E L H P I Q N G F W E R H G S Q	Q C G Y C T P P G Q I	M S A V A C V K E G H			
E G D S L H P V Q Q A M V D H G S Q	Q C G F C T P P G G I	V M S M Y T M Y Q N H T			
A D G D K L H P I Q Q E A F I E K G A V	Q C G F C T P P G G I	M S A K A L L D K N K			
A D G D N L H P M Q Q E A F I E N D G F Q	Q C G Y C T T S G Q I	M S A V A C V K E G H			
E D K T L H P V Q Q K A I A E H H G S Q	Q C G F C T P P G G I	M S M Y A L L R S S Q			
H P I	Q Q Q E S L A R A H G S Q	Q C G F C T P P G G I	M S M Y A L L R N H P		
K L H P V Q Q E R L A R H G S Q	Q C G F C T P P G G I	M S M Y A L L R N H P			
A S G G Q L H P L Q Q K F L E H A A L	Q C G F C T P P G G F I	L A A K A K L L D R N P			
D N E Y L D P V Q Q E A F I E T G A V	Q C G F C T P P G G F I	L A A K K L L E E N P			
A L H P I Q Q E S F L K D G G F Q	Q C G Y C T P P G G F I	M R S K A L L E E N P			
D D L H P I Q Q R A F I V D N S A L	Q C G F C T P P G G F I	V S A K C L L D E N P			
N L H P I Q Q K A F I F H A L	Q C G F C T P P G G F I	M S A K V L L D T N T			
G A L H P L Q V A W M A H G G A Q	Q C G V C T P P G G F I	M S A K V L L D T N T			
P D G R L H P V Q Q E A F I D H D A F Q	Q C G Y C T P P G G F I	M S A V A C V K E G H			
S E D G D L H P V Q Q E R L A K M H G S Q	Q C G F C T P P G G F I	V M S L Y S A L R A S P			
P P G G A M S P V Q Q R A F A E C H G	Q C G F C T P P G G F I	C T V T A L L R D N P			
A S D G E L H P L Q Q R A F I R H D A F Q	Q C G Y C T P P G G F I	C S A V V G L V H E G H			
A E G G K L H P V Q Q E A F V E H D A L	Q C G F C T P P G G F I	V M S C A A L I D R K P			
K L H P I Q Q E R L A M T H G S Q	Q C G F C T P P G G F I	V M A M Y A L L R N N P			
L H P I Q Q E S L A R S H G S Q	Q C G F C T P P G G F I	M S M Y A L L R S S E			

50 60 70 80

QUERY	P T E A E I R F G I G G N L C R C T G Y Q N V K A I Q Y A A A K N G V P F																											
UniRef90_M1J1K0	N P T E E E I I R E G I S S G N L L C R C T G Y Q N I I K A I K D A A A R L N																											
UniRef90_A0A023CPI5	A P T E E E Q I R E G L S S G N I L C C R C T G Y V N V K A V K S A A Q K M																											
UniRef90_D1C3L6	N P T E E E Q I R H G L E G G N L C C R C T G Y Q N V R A A Q Y A A D K M R G A A T																											
UniRef90_I2F503	S P S D E E I I R E A L S G N I L C C R C T G Y Q N I R A V K K S A A I L S G																											
UniRef90_K6WP56	N P D E D A V R E G L E G G N L C C R C T G Y Q N V R A A L D A A G R M Q G A																											
UniRef90_E9T3Q3	S P T R E E A T E A I A G N I L C C R C T G Y Q N R A A V L R A A E I T R																											
UniRef90_E1R3T3	R P S R D R I R K A M S G G N L C C R C T G Y Q N I D A V E M A A K R M																											
UniRef90_UPI00040AE0F2	S P T E E E I I R Y W M A G G N L C C R C T G Y Q N V K A V Q Y A A R K L R G E A V																											
UniRef90_V9XIZ6	D P S D E D V R H G L E G G N L C C R C T G Y Q N V A A A R D A A Q R L R E N P A																											
UniRef90_A5D1V5	K P S Q F E I K R A I A G N I L C C R C T G Y K K V E A I E A A S G A I																											
UniRef90_H0UP07	N P T D Q E E M K V A L S G G N L C C R C T G Y E G F R A V R K A A K M M																											
UniRef90_J3EW76	D P T D E E I I R T G L A D N I L C C R C T G Y H N Y D A V R R A A D E M E G A G T																											
UniRef90_U4K7C7	K V T K H D V M E A F S G G N L C C R C T G Y R P V D A A L S																											
UniRef90_F4D0K4	D P D E N E V R E G I E G G N L C C R C T G Y Q N V R S V Q R A A Q M M K A V P A																											
UniRef90_W5X7C0	A G S D E D I R E F M S G G N I C C R C G A Y P G C A A I K E A R E G M G G A																											
UniRef90_A7RU77	F P S K Q E I E N H F D G G N I C C R C T G Y R P L D A M K T F A K D A D P L D I																											
UniRef90_Q15T48	A P N R E Q V N V A L G G G N L C C R C T G Y R P I D A A L A S C T G A P H																											
UniRef90_UPI00037ACFA2	D P D E Q A V R E G L E G G N L C C R C T G Y Q N V R A V Q D A A S E M R P G A G																											
UniRef90_F0L980	N P S R A D I E K A L Q G N I L C C R C T G Y E P V R A A E K I A A																											
UniRef90_S4RAN6	A P S Q E E V E D V F D G G N I C C R C T G Y R P L D A M K S F A K D G K A P																											
UniRef90_X1IA18	N P T E D E I I R E Y M R G R N I L C C R C T G Y N Q I T A I K S																											
UniRef90_Q0AVY8	A P D R Q Q I I R T A L S S G G N I L C C R C T G Y Q K I D A V E S A A A E M R D E																											
UniRef90_D5BTM6	G L A A N Q I I D D T L L A G G N I L C C R C T G Y R P V D A G L T L A G K A K																											
UniRef90_G0LKQ0	S P S R E Q T K K H S S S N N I L C C R C T G Y Q N Y E A V D R A A E																											
UniRef90_D1C8P8	N P T E A E I I R Q A I I S G G N I L C C R C T G Y V N V K S I Q Y A A K K M Q Q A																											
UniRef90_UPI000375F3F2	N P G R A E I I E K T L L Q G G N I L C C R C T G Y E P V K A A E A A V																											
UniRef90_M3YQH7	E P S L E Q I I M E A L L G G N I L C C R C T G Y R P I D A C C K T F C K V S R																											
UniRef90_M1ZMM0	H P T I E D I I R E T L L G G G N I L C C R C T G Y R P I D G F K T F C E																											
UniRef90_X0TJL3	K P D R K E I I V K A I I S G G N I L C C R C T G Y H S I A A I E D A A K																											
UniRef90_W4LG84	E P S E D E I I K D W M M G G N I L C C R C T G Y Y K I E S I Q A A A A Q I Q G																											
UniRef90_UPI00041B3319	E A D R R T V V E R H L G G N I L C C R C T G Y R P V E A A Q R A C E Q N E A D S F																											
UniRef90_V2YDY1	R P G R E E E V R S W F H R N I I L C C R C T G Y R P V D G V V M L A A E V M R G E K T																											
UniRef90_V6M828	K P S E G E I I R E A I I S G G N I L C C R C T G Y A N V K A V E Q A S Q A L																											
UniRef90_W6KA45	H A D Q A E E I I K E R M G G G N I L C C R C T G Y Q K V E A V E L A R D V M N G A																											
UniRef90_UPI0003B6285C	R P T D Q E V V E R E G L E G G N I L C C R C T G Y Q N V A A V Q Q A A G E																											
UniRef90_G8ALR5	S P S E H D V V E R E G L E G G N I L C C R C T G Y H N V K A V V M A G E A A M Q G																											
UniRef90_B6ISQ9	S P S E T E V V R G W L E G G N I L C C R C T G Y H N V R S V L A C A E E M R G G A A																											
UniRef90_B9KYN1	D P S E E E I I R E A I I S G G N I L C C R C T G Y Q N V E A A R Y A A Q L M R																											
UniRef90_F0QY92	P A A D E D V V M K L S I K N I L C C R C T G Y V N I R A I K R A S K Y L T G																											
UniRef90_F0ZAV7	N A N Q K E I I E H N F D G G N I L C C R C T G Y R P L D A A K S F A D K T T D E Q																											
UniRef90_UPI0004179501	P P P R D E V V T A L A G G N I L C C R C T G Y R P V D A A A L V A M D G P P A																											
UniRef90_B3SQ07	Q P T P E E E I I E L A F E G G N I L C C R C T G Y R P L E G C K T F C G K																											
UniRef90_I4F485	D P T D R E V V E R E G L E G G N I L C C R C T G Y H N V R A V L T A A K A G P A A																											
UniRef90_UPI0003B6B59F	A Q S D D D I I R E F M S G G N I L C C R C T G Y P N V A A I R D I A A I R D V A A																											
UniRef90_UPI00047216DF	H P T D E E I I R E A I I G G G N I L C C R C T G Y E N V E A V K L A S E M M Q P A K																											
UniRef90_UPI00046CEB1D	D P T R E E I I R E A L A G G N I L C C R C T G Y V Q V E A V R A A A R E M A G																											
UniRef90_A6CZ74	N A S K P D V V M E S L A G G N I L C C R C T G Y R P V D S A L S L C S E E R																											
UniRef90_UPI00045736EE	S P S S Q V V E D N F D G G N I V C C R C T G Y R S L D A M K S F A R D T D V E K Q																											
UniRef90_UPI0003B3F497	D P T P E E E A R E A V V A G G N I L C C R C T G Y Q N V K A V C R A A E L R R D G D A																											
UniRef90_Q0FEV0	N P S K R E V V E I A V Q Q G N I L C C R C T G Y E P I N A A L A V																											
UniRef90_UPI0004160294	N P T E H E I I R D I L E G G N I L C C R C T G Y Q N V K A V Q T V Q K T M T A																											
UniRef90_D1C8T2	UniRef90_UPI000416213B7	N P T E D E I I R E G L L S G G N I L C C R C T G Y Q G V A A V K S V A G																										
UniRef90_UPI00042BB4E	D P S M E Q I I T A A L D G G N I L C C R C T G Y R P I D T Y K S F A G E																											
UniRef90_UPI0003F0F15B	Q P S Y D E M M A A F E G G N I L C C R C T G Y R P I Q G Y K T F T K E																											
UniRef90_D5WCP2	H E H G C A N R N A L T G G N I L C C R C T G Y R P V D A A E R M F D A P A																											
UniRef90_A1ZT82	UniRef90_UPI00045736EE	K P T D A D I I D A A M S G G N I L C C R C T G Y V R P R K A I H R A A K A M N																										
UniRef90_K9DE46	A P A R R E I I D A L S S G G N I L C C R C T G Y R P I D A A R R M T E L P P																											
UniRef90_A3V9T3	I N G E T D H D L Q L A G G N I L C C R C T G Y A P V R A A T N A A R R																											
UniRef90_A3THD0	N P S E E E I I R V G G L E G G N I L C C R C T G Y H N V K A V V Q Q A A G Q																											
UniRef90_UPI0003C2AA57	E P S M E Q I I T A A L A G G N I L C C R C T G Y R P L D G C K T F C K E																											
UniRef90_UPI00016213B7	K P T Q A E I I E E C L A G G N I L C C R C T G Y R P L D A F R V F A K																											
UniRef90_E8TAC2	D P S N A D V V E K A L Q Q G N I L C C R C T G Y E A M R A A H A I S S Y G K A A K D																											
UniRef90_Q89JR3	A G D P D E I I R E L L M S G G N I L C C R C G A Y P N V A A I I Q Q A V G R																											
UniRef90_T0ILL0	UniRef90_W9V6H3	UniRef90_Q01QE1	UniRef90_A5YJ06	UniRef90_E8N1K7	UniRef90_UPI00047975CE	UniRef90_O44233	UniRef90_H5YFC6	UniRef90_N1MVJ7	UniRef90_E8N1K7	UniRef90_UPI0002F20A61	UniRef90_I4C689	UniRef90_UPI00046EDE67	UniRef90_A0A024UBK6	UniRef90_A0A059ABH0	UniRef90_R7V9A5	UniRef90_I00A2	UniRef90_X1SFW6	UniRef90_L5NAH6	UniRef90_D2S099	UniRef90_A1AP96	UniRef90_J6UBS2	UniRef90_UPI0004764FF6	UniRef90_R1D2U1	UniRef90_D2B3U3	UniRef90_R9VD78	UniRef90_X6GMH3	UniRef90_U6P285	UniRef90_B9HNV5
UniRef90_UPI00047975CE	R E T D E A I I R Q S L V G N I L C C R C T G Y S H V E A V V K K V A G																											
UniRef90_O44233	K P T E F E I I R E A I I S G G N I L C C R C T G Y N R V E A V G L E A																											
UniRef90_H5YFC6	A G S E A D I I R E Y M S G G N I L C C R C A A Y P N V A A V V K Q Q A A E I M K G																											
UniRef90_N1MVJ7	UniRef90_E8N1K7	A G S E A D I I R E Y M S G G N I L C C R C T G Y S H V E A V V Q S A A A Q L R G M D P																										
UniRef90_UPI0002F20A61	R E T D E A I I R Q S L V G N I L C C R C T G Y S H V E A V V Q S A A A Q L R G M D P																											
UniRef90_I4C689	T P D K H A V V R E A I I G G G N I L C C R C T G Y V K E D A I N H A A R I M																											
UniRef90_UPI00046EDE67	T G S V E E I I K E Y M S G G N I L C C R C G A Y N G T E A I Q Q V A K																											
UniRef90_A0A024UBK6	A V T M D G I I E H Q L D G G N I L C C R C T G Y R P L D A A R S F G S D																											
UniRef90_A0A059ABH0	S P P P E E I I D E C L S S G G N I L C C R C T G Y R P L D R F V F A K T E N S L Y G																											
UniRef90_R7V9A5	V P S A Q L M E E A F E G G N I L C C R C T G Y R P L D G F K T F T K																											
UniRef90_I00A2	D P T E A E V V R H W L A G G N I L C C R C T G Y D K V R A V L D A A D A V																											
UniRef90_X1SFW6	H P D E E E I I K R G I I S S G G N I L C C R C T G Y Q K F D A I K L A A N R L																											
UniRef90_L5NAH6	E P T E V V Q I I R E G L S S G G N I L C C R C T G Y V G I R A V K R A A R E L R Q V K I																											
UniRef90_D2S099	D P T E T E V V R E A L E D N I L C C R C T G Y K K V E A V L D A A D R M D G E																											
UniRef90_A1AP96	N P S R E D V V R D W F H R N I A C R C T G Y S M V D A V M D A A K C L R G E I T																											
UniRef90_J6UBS2	S P T R E Q V V R A W F W R N I V C C R C T G Y K P I D A V M D A A A I M R G E K R																											
UniRef90_UPI0004764FF6	A V D E A T V V R E W M S G G N I L C C R C S C Y P Q T A A V L D A A R R M E																											
UniRef90_R1D2U1	K L A M E E V V A D H L D G G N I L C C R C T G Y R P L D A A K S L C A D																											
UniRef90_D2B3U3	A P T E E E V V L E G I S S G G N I L C C R C T G Y Q N V K S V H R A A E I M A E E																											
UniRef90_R9VD78	A D S R E A I V V R E Q M S G G N I L C C R C G A Y G N V I A A V E E A M P L M K D V P R																											
UniRef90_X6GMH3	D A G I D E V V K A A I S S G N I L C C R C T G Y P N F A A V L V A G E N R																											
UniRef90_U6P285	T P T V A D V V N E A L I S S G G N I L C C R C T G Y R P L E A F Y S F																											
UniRef90_B9HNV5	P P T E E Q I I E E C L A G G N I L C C R C T G Y R P I D A F Q V F A K T D D A																											

QUERY	E E
UniRef90_M1J1K0	
UniRef90_A0A023CPI5	
UniRef90_D1C3L6	A
UniRef90_I2F503	
UniRef90_K6WP56	
UniRef90_E9T3Q3	
UniRef90_E1R3T3	
UniRef90_UPI00040AE0F2	E
UniRef90_V9XIZ6	A
UniRef90_A5D1V5	
UniRef90_H0UP07	
UniRef90_J3EWT6	E
UniRef90_U4K7C7	
UniRef90_F4D0K4	E
UniRef90_W5X7C0	
UniRef90_A7RU77	E D
UniRef90_Q15T48	D K
UniRef90_UPI00037ACFA2	P E
UniRef90_F0L980	
UniRef90_S4RAN6	
UniRef90_X1IAI8	
UniRef90_Q0AVY8	
UniRef90_D5BTM6	
UniRef90_G0LKQ0	
UniRef90_D1C8P8	
UniRef90_UPI000375F3F2	
UniRef90_M3YQH7	
UniRef90_M1ZMM0	
UniRef90_X0TJL3	
UniRef90_W4LG84	
UniRef90_UPI00041B3319	T E
UniRef90_V2YDY1	M E
UniRef90_V6M828	
UniRef90_W6KA45	
UniRef90_UPI0003B6285C	
UniRef90_G8ALR5	
UniRef90_B6ISQ9	A
UniRef90_B9KYN1	
UniRef90_F0QY92	
UniRef90_F0ZAV7	D E
UniRef90_UPI0004179501	D
UniRef90_B3S0Q7	
UniRef90_I4F485	
UniRef90_UPI0003B6B59F	N E
UniRef90_UPI00047216DF	
UniRef90_UPI00046CEB1D	
UniRef90_A6CZ74	
UniRef90_UPI00045736EE	E
UniRef90_UPI0003B3F497	P Q
UniRef90_Q0FEV0	
UniRef90_UPI0004160294	
UniRef90_D1C8T2	
UniRef90_UPI00042BB4EE	
UniRef90_UPI0003F0F15B	
UniRef90_D5WCP2	P Q
UniRef90_A1ZT82	
UniRef90_K9DE46	
UniRef90_A3V9T3	
UniRef90_A3THDO	
UniRef90_UPI0003C2AA57	
UniRef90_UPI00016213B7	P
UniRef90_E8TAC2	
UniRef90_Q89JR3	
UniRef90_T0ILL0	
UniRef90_W9V6H3	
UniRef90_Q01QE1	
UniRef90_A5YJ06	
UniRef90_E8N1K7	
UniRef90_UPI00047975CE	
UniRef90_O44233	
UniRef90_H5YFC6	
UniRef90_N1MVJ7	E E
UniRef90_UPI0002F20A61	
UniRef90_I4C689	
UniRef90_UPI00046EDE67	
UniRef90_A0A024UBK6	
UniRef90_A0A059ABH0	P Q
UniRef90_R7V9A5	
UniRef90_I00A2	
UniRef90_X1SFW6	
UniRef90_L5NAH6	
UniRef90_D2S099	
UniRef90_A1AP96	P Q
UniRef90_J6UBS2	P E
UniRef90_UPI0004764FF6	
UniRef90_R1D2U1	
UniRef90_D2B3U3	
UniRef90_R9VD78	Q Q
UniRef90_X6GMH3	
UniRef90_U6P285	
UniRef90_B9HNV5	

UniRef90_C9YHB0	1	A D D G R L	H P A Q E A M	V Q C H G S Q	C G F C T P G F V	M S L F D L Y R Q H A
UniRef90_UP100046CFE78	10	P G G E L H P I Q R A F V E K G A V Q C G F C T P G M V L S A K A L L D R V P				
UniRef90_B2A7Q1	S E N G E L D I Q K N F V E E T A I Q C G Y C T P G M I M S T K A L L L R N S					
UniRef90_H5X5G3	P D G S L S P L Q E A F H E H G L Q C G F C T P G M L L A A Q E L L E Q S P					
UniRef90_D3F4R3	A A D G S L S P L Q E A F H E H G L Q C G F C T P G M L L A A Q E L L E Q S P					
UniRef90_L7UEU3	K P H P V Q Q A M V K H Y G S Q C G Y C T P G F I V S M A E A Y S R P E					
UniRef90_G7LZE7	S K N G E L D K L Q E T F F I E A G A V Q C G Y C T P G M I L S A K A L L M R N P					
UniRef90_D5PB85	A P D G T L S P V Q S A F L R E C H G L Q C G Y C T P G F V M S L T A L L R D N P					
UniRef90_UP10003B7017B	S P D K L H A L Q E M F K E H H G L Q C G Y C T P G M I M R S Y R F L Q E N P					
UniRef90_J2KMZ9	A K D G T L H P A Q Q A M V N E H G S Q C G F C T P G F V M S L F G M Y Q N H V					
UniRef90_M0N029	D D L H P V Q S A F V D N A A L Q C G Y C T P G M I M R S R D F L E E N P					
UniRef90_UP100028899DB	A K N G V P H P L Q T A F A E Q G A S Q C G Y C S P G M V M S I Y T L L R N H P					
UniRef90_G3WWT1	R I H P V Q V E R L A K C H G T Q C G F C S P G M V M S I Y T L L R N H P					
UniRef90_UP10003611553	A D G A M H P V Q R A M V D H H G S Q C G F C T P G F V M S L F A L Y L E G G					
UniRef90_12Q2K8	Q P G D L H P L Q R S R W V K H G A A Q C G F C T P G F V V S A K G L L D E N P					
UniRef90_K8PTS2	A G G A L H P I Q Q A F H E H A L Q C G F C T P G M I M S V R Q L L K Q H P					
UniRef90_Q5FQV8	A P D G H P V M Q Q A F I D R D A F Q C G Y C T P G Q I M S A V A L L E E G H					
UniRef90_G9WKR0	E N G E L S P I Q Q R A F I E E A A V Q C G F C T P G I I M S A V E I V G S G K					
UniRef90_A1TZ32	S A D G E L H P L Q K A W V E Q G V P C G Y C Q S S G Q I M T A A H H L L A N N P					
UniRef90_F7QET1	A D G D K L H P I Q Q A F M D C H G L Q C G F C T P G F I M L A V A A L E N N P					
UniRef90_E0QIN7	N N T L S P V Q Q A F I D C H G F C T P G F I L M S A V A I A G E K K					
UniRef90_UP1000301409C	A D G S L H P I Q Q A F I D C H G F C T P G F I L M S A V A I A G E K K					
UniRef90_N0E1B3	D N L S P V Q Q A F K E C H A L Q C G F C T P G F I L T T H A F L E T N P					
UniRef90_X6GTB0	A Q G D E L H P L Q A S F I E R D A F Q C G Y C T P G F I V M A M A A A H A Q G					
UniRef90_A0A017HAB0	A E A G A L H P V Q Q A M V D H H G S Q C G F C T P G F I V M A M A A A H A Q G					
UniRef90_B7UVJ8	D R L H D V Q Q A M V D C H G S Q C G F C T P G F I V M S L F A L Q K N S A					
UniRef90_M4IH1N	A E G S D L H P M Q Q Q A F I D N D A L Q C G Y C T P G Q I M S A V A C V T E G R					
UniRef90_M0N7Z5	A E G G D L H P V Q R A F H E E H A L Q C G F C T S G F V M A T R D L L E R N P					
UniRef90_R4WSQ1	P D G T L H P V Q Q A L V D C H G S Q C G F C T P G F A M S M F S L Y E K H G					
UniRef90_A0A016QR67	E G G A L H P M Q Q A A F I E H D A F Q C G Y C T P G Q I L M S A V A C V E T G H					
UniRef90_F8UGV6	S R N G Q P D P L Q L A F V N H G A I Q C G Y C T P G A L M S A K G L L S R N P					
UniRef90_14BWM5	K M H P L Q K A F V K H G V T Q C G F C N P G F I I S A K V L L D S N P					
UniRef90_W4LYY3	D G T L H P V Q R S F V D A L L G P Q C G F C T P G Q I M S T V G F L A E N P					
UniRef90_Q6ARM6	L H P I Q V A W I A H S G A Q C G F C T P G F I V S T Y A L I E S N P					
UniRef90_UP10003662753	P E G S L H P V Q R A L V D C H G S Q C G F C T P G F T T M S M W A L Y E N H P					
UniRef90_G7DDK7	A K G D E L H P M Q Q A A F R D N H G L Q C G Y C T P G M I M S A I D I H R H G G					
UniRef90_R4KRQ0	A Q S E K L D K I Q E S F I I E N A A V Q C G Y C T P G M I M S A K A L L T K N P					
UniRef90_UP100041A8208	D E G L H P L Q Q A F I I R H H A V Q C G F C S P G L L M S A K A L L D E V P					
UniRef90_UP1000378957A	A E G D R L H P L Q Q A F I I D Q D A F Q C G F C T S T G Q I V S G V G C I Q E G H					
UniRef90_L0DL1	UniRef90_I6ZHP4	A P G S L H P Q Q A A W I A E D V P Q C G Y C Q S S G Q I M S A A V L L R E N P				
UniRef90_D9W376	D Q G Q L H S V Q Q A M V D C H G S Q C G F C T P G F I M S L F A L Q K N V N					
UniRef90_F4G7N6	E G G E L S N I Q Q A F I I D A G A V Q C G F C T P G F I L V Q A D A L L E Q N A					
UniRef90_K4THI2	N L H P L Q Q A F V E W E K H G L Q C G F C T P G M I L T A K E L L A R N P					
UniRef90_K1Z602	E D D A L H P I Q Q A F H E L H A L Q C G Y C T P G I I V S T Y A L I E S N P					
UniRef90_UP1000333FD11	K L H P V Q R S F V L H G A V Q C G F C T P G M V I T A T E F L A R Q P					
UniRef90_UP10002C325EB	R I I H P V Q V E R I A K S H G T Q C G F C T P G M V M S I Y T L L R N H P					
UniRef90_UP1000364A067	A D G V T L H P I Q Q A S L A Q S H G S Q C G F C T P G F V V M S V Y A L L R S S Q					
UniRef90_UP100037CD9A2	A R D G E P H P L Q T A F G E H A L Q C G Y C T P G M V I V Q A Y A L L K R N P					
UniRef90_A8UQN0	UniRef90_G8M647	A D G A L H P V Q Q A L V D C H G S Q C G F C T P G F I A M S L W A L Y H S H P				
UniRef90_E3J6J9	A L L S P V Q Q A F R D H H G L Q C G F C T P G F I V V S V T A F L R E H P					
UniRef90_Q59128	D G A L S P L Q Q E A F K R H H A L Q C G F C T A G F L M S A T E L L E A N P					
UniRef90_H3FOA9	R L H P I Q Q E R I A K S H G T Q C G F C S P G F V V M A A Y A L L R N N P					
UniRef90_Q9VF50	H P I Q Q K R L L A K M N G T Q C G F C S P G F V V M N M Y G L M E Q H G					
UniRef90_H2YPI3	K L H A V Q E R E L W K F H G S Q C G F C T P G I I V M S M Y A L L R N N S G					
UniRef90_A9D827	A S G G E L H P V Q Q A A F R E H H G L Q C G F C T P G M I I V S A V D M I R H G G					
UniRef90_D5API5	A P D G R L H P V Q Q A M I D H G S Q C G F C T P G F I V S M A A A H D R					
UniRef90_D0MFF7	UniRef90_H0WREL	A H P L Q R A W R E L N V P Q C G Y C Q A G Q L M T A A A L L R Q N P				
UniRef90_W0FNFM8	P G G E L S D I Q Q A F V D E G A I Q C G F C T P G F I M T S W E I V N S G K					
UniRef90_X0VLZ2	D D L H P L Q Q E Q F Q T H A L Q C G F C T S G F V M S I L P V L E E T T					
UniRef90_C5BKG5	A D G D T L H P L Q Q A W L D N S V P Q C G Y C Q S S G Q I M S A A A L L A G N P					
UniRef90_F7CG46	A D G D T L H P L Q Q E R I A K G H G T Q C G F C T P G M V M S L Y A L L R N H P					
UniRef90_C7YW68	R I H P L Q Q E R I A K S N G S Q C G F C T P G M V M S L Y A L L R N N T					
UniRef90_Q1LRH5	R P H P A Q E R I A K S N G S Q C G F C T P G M V M S L Y A L L R N H P					
UniRef90_UP100036F4537	A V N G E M H P V Q Q A F R E C H G L Q C G F C T P G M V M A A T A L L K D R P					
UniRef90_UP1000374CB31	D N L H P I Q Q A A W I A H G G A Q C G F C T P G M V M T A A D L L K H N P					
UniRef90_UP1000475F745	UniRef90_T2GDG0	UniRef90_DGGGL	A D G G L H P M Q S A F R E C H G L Q C G F C T P G M V M A A V D L V K R H P			
UniRef90_A3JMM6	P H P L Q T A F A E H G A V Q C G F C S P G M T L A A A A L L A R N P					
UniRef90_M5A278	A E G E N L H P L Q Q E K F I E Y A A V Q C G F C T P G I I V S S K A L L D T N P					
UniRef90_L8GZ48	A P V G S P S D V Q Q A F V D A G A V Q C G F C T P G L V M A V H D L L E R T E					
UniRef90_C7PZT1	G K L H P V Q D K M A N L F G S Q C G F C T P G F V M S I H S A L Q K F P					
UniRef90_UP100036CF9CE	A D G D V L H P I Q Q A C F I I K A G A V Q C G F C T P G L L V Q A H A L I E S N P					
UniRef90_D9UHJ8	A L H P V Q Q A F I D E H A V Q C G F C S P G M I I S T K A L L D Q N P					
UniRef90_D0CZJ1	G P A L S P V Q Q A F V D A G A V Q C G F C T P G F L V V A A D D L L E R V P					
UniRef90_G9QQU2	P D G S L H P V Q Q A M V E Y H G S Q C G F C T P G F V V V S M A R A H T T G D					
UniRef90_A0Z3A5	A D G A V L H P V Q Q K L L E H G G L Q C G V C T P G M I M A V T S I L Y Q Y E					
UniRef90_UP100037648C2	S A D G N H P V Q Q A W D K V D V P Q C G Y C Q A G Q I M T A A A L L K K N P					
UniRef90_A1SPN4	A D Q G R L S T I Q Q A A F A R H H A V Q C G F C T C T G G M V L S V R D L L Q R N P					
UniRef90_Q12AU0	A L L H P V Q Q A F I D E Q A A Q C G Y C L S G M I M M T V A L L A R N P					
UniRef90_S4P8P1	K L H P V Q Q E R L A K A H G S Q C G F C T P G I V M S M Y T L L R S S C K					
UniRef90_F7NKJ7	S P D G G L S L Q Q E F M N H D A L Q C G F C T P G M I M S A R A L L R N R P					
UniRef90_X7ZBD9	G G R L H P L Q Q A F I D E D A F Q C G Y C T A G Q I M S G V G C I A E G H					
UniRef90_W7W967	G T L H P V Q Q A L V D C H G S Q C G F C T P G F A M S L A A C C Y E R H C					
UniRef90_UP1000369646A	R D G L H P I Q Q E A M V E R H A S G A V Q C G F C T P G F V V M Q L Y S G W R T G A					
UniRef90_F8EDQ5	E A N L H P V Q Q A W I E E V P Q C G Y C Q S S G Q I M A A S A L L K E K A					
UniRef90_N2JL18	A N G D E L H P M Q Q A F V E Q D A F Q C G Y C T P G Q I C S A I G M I K E G K					
UniRef90_F2IZU7	A A D G R L H P V Q Q L A L R D L H G S Q C G F C T S G F V V M S F T L Y H A H G K					
UniRef90_C1DGA9	G R L H A V Q Q A V V D R H A S G A V Q C G F C T P G V V M S L F A L Q K N A D					
UniRef90_UP10003700269	A T E E N L S V V Q Q A F I D C H G A V Q C G F C T P G M V L A V L D L L Y R N P					
UniRef90_D8P1E7	K D G T L H P A Q Q A M V E C H G S Q C G F C T P G F V M S L Y A L Y E N T P					

50 60 70 80

UniRef90_C9YHB0	H I T R D D A L H A L S G N L C R C T G Y R P L D A A Q T M L G Q P A
UniRef90_UPI00046CFE78	L P S E E E I R T A L L A G N L C R C T G Y A Q I E A V Q A A A E E L
UniRef90_B2A7Q1	N P T T E E E I R I A L A G N L C C S G Y S Q I R A V Q R S A Q E M E G
UniRef90_H5X5G3	P T T E E E I A R E M I A G N L C R C T G Y H N V A A V C R A A E L A E G T
UniRef90_D3F4R3	D P S E E E I I R A S L L S G N L C C R C T G Y E F V D A V R D A A G R L G A D A T
UniRef90_L7UEU3	V C T P E E A V A D Q L C C R C T G Y R P R D A M M E A L A E R D A
UniRef90_G7LZE7	H P T K E E I I R R A M S G N L C C R C T G Y A K I K A V E L A L E D
UniRef90_D5PB85	D P S D E E I I R E G L L S G N F C C R C T G Y Q G V A A A R R A A E
UniRef90_UPI0003B7017B	N P T T E E V V R F G I I S G N L L C C R C T G Y R P V K S I M A A A S K I R D E
UniRef90_J2KMZ9	C I S R E L A Q E E L L S G N L C C R C T G Y R P L D A A Q A M A A L P P V K V
UniRef90_M0N029	D P D R E E I I R A A L L S D N L L C C R C T G Y E K L D A V E D A A E R M D G D T A
UniRef90_UPI00028899DB	N P D S N T I I R E A L L S G N L L C C R C T G Y A K I E A V E Q A A G E L
UniRef90_G3WWT1	D P S T E Q L I M E A L L G G N L L C C R C T G Y R P V E S G K T F C E E
UniRef90_UPI0003611553	R P D R Q R L I N D T L A G N L C C R C T G Y R P V D A A A L A
UniRef90_I2Q2K8	S P S R E D A R G W F H R N A C C R C T G Y K P V D A V M E A A S V M R G E A P
UniRef90_K8PTS2	N P T E D E I I R H N L T G N I L C C R C T G Y H N V R A V E S L A A
UniRef90_Q5FQV8	V R T R E E I I R E F M S G N L L C C R C G A Y N G I E A I E Q V V A Q Q Q Q D R A
UniRef90_G9WKR0	R Y T K D E E L R K L I S G H L C C R C T G Y E N L K A V E R A V E E
UniRef90_A1TZ32	S P D R E Q I I V T A M T G N L L C C R C G T Y P R V A A V E S V A G
UniRef90_F7QET1	T I D E H A L R D V L L S S N L L C C R C T G Y Q N L K A V Q A A A K V M
UniRef90_E0QIN7	R Y T R D E L L R R K I S G H L C C R C T G Y E N L K A V E K A I E
UniRef90_UPI000301409C	N P S E A E I I R N H L S G N L L C C R C C A A Y P E I K A V Q L A A H R L N G A Q
UniRef90_N0E1B3	S P T E A E A R E I V V S S G N L L C C R C T G Y Q N I K A V L R A A E I R R
UniRef90_X6GTB0	A G S P E E I R E W M S G N L L C C R C G A Y D H V A A I Q D A A A
UniRef90_A0A017HAB0	R T D H D D Q L A G N L L C C R C T G Y A P I R A A E A A
UniRef90_B7UVJ8	G A D P A K A H E A L A G N L L C C R C T G Y R P I L D A A E Q A C C H K R A D Q F
UniRef90_M4IHN1	A A H P D D I I R E F M S G N I I C C R C G A Y V G I L A A I Q Q T A K V M E G
UniRef90_M0N7Z5	D P S D E A I I R K G L A D N I I C C R C T G Y Q N I Y D A V H R A A D E M D
UniRef90_R4WSQ1	H A T T C E I I S D A L T G N I L C C R C T G Y R P I E A A A R
UniRef90_A0A016QR67	A G S E G E I I R E F M S G N L L C C R C C A A Y P Q V A A V R S V A G
UniRef90_F8UGV6	H P S R E E I I T D A L L S G N L L C C R C T G Y Q K I I D A V E A A A K
UniRef90_I4BWM5	S P T R E E V I R E W F H R N A C C R C T G Y P I I N A V M D A A K V L R G E M D
UniRef90_W4LYY3	K P T R A E M A E A L S G N L L C C R C G A Y D H Y L I N A M L A A Q R
UniRef90_Q6ARM6	N P S R D D I V R D W F Q R N A C C R C T G Y K Q I L D A V R D A A A V M R G D K
UniRef90_UPI0003662753	R P T R E E I I A T A L L S G N I L C C R C T G Y R P I V D A A Q A
UniRef90_G7DDK7	E L D E P T V R Q E L E G N I L C C R C T G Y H N I V K A V L D A A G R M K V S Q A
UniRef90_R4KRQ0	H P T E E E I I R E A I A G N L L C C R C T G Y V N I V K A V L I A A A G E
UniRef90_UPI00041A8208	H P G R N E I I K N A I A G N L L C C R C T G Y E Q I V E A V L D A A N R K E
UniRef90_UPI000378957A	T G S A E E I I R E W M S G N L L C C R C G C Y V K I E R A V E Q A A G R
UniRef90_L0DLL1	H P T D A D I I D D S M T G N L L C C R C G T Y P R I R A I H R A A E
UniRef90_I6ZHP4	E Y D P A Q T H E A L A G N L L C C R C T G Y R P I L E A A E Q A C G S K Q P D Q F
UniRef90_D9W376	D P S D Q D I I R E A L L S G N L L C C R C T G Y E K I L D A V R L A A A R
UniRef90_F4G7N6	D P T R E E V I V A E A I I S S G N L L C C R C T G Y Q T I I D S I M A A A E T L R
UniRef90_K4TH12	D P D E A Q V I R D V L L S S G H L C C R C T G Y Q N I V A A V L R A A Q L M R A E
UniRef90_K1Z602	U H S D R S E E M A G A I I S S G N L L C C R C T G Y S K I L D A M E N V A E E V
UniRef90_UPI000333FD11	E P S P E Q L I M E T L L G G N L L C C R C T G Y R P I V E A
UniRef90_UPI0002C325EB	T P P N E E I I E E C L I A G N L L C C R C T G Y R P I V D A F R V F A K
UniRef90_UPI000364A067	P V I G R D E V I N D A I I A G N L L C C R C T G Y R P I V E A A L S A C A G P R D D K F
UniRef90_UPI00037CD9A2	N P T D E V I R T Q C L I R G N L L C C R C T G Y Q H I V D A V L S V T G R
UniRef90_A8UQN0	K P T R E E V I V K S S M N G N G L L C C R C G T Y P R I V R A V M R A S E M M R
UniRef90_G8M647	P P S R D D I I A T A L L S G N L L C C R C T G Y R P I V D A G Q R
UniRef90_E3J6J9	N P T D D E I I R A G L L S S G N L L C C R C T G Y Q G I V L K A V Q A A R S M
UniRef90_Q59128	S P T K E E V I I E A L L S G N L L C C R C T G Y Q T I V E A V L D A P G Q I
UniRef90_H3FOA9	T P T A D E I I R A A L V I G N L L C C R C T G Y R P I V L E A L E S F A
UniRef90_Q9VF50	R V T M E E V I V E N S F G G N I I C C R C T G Y R P I V L D A M K S F A V D S T V E V S
UniRef90_H2YPI3	S P K M P N I I E T C L Q G G N L L C C R C T G Y R P I V L G A F K T F T D E Q N G
UniRef90_A9D827	Q L D E K T I V R A E L E G N L L C C R C T G Y H N I V V K A V L D A A S K M
UniRef90_D5API5	D R K D Y D D L L A G N L L C C R C T G Y A P I V L R
UniRef90_D0MFF7	N P T D D D I I I A A M G G G N L L C C R C G T Y H R I V R Q A I H R A A E I M R
UniRef90_W0FNM8	E Y T D D E I L R K A L L S S G H L C C R C T G Y E N I V F R A V K K
UniRef90_X0VLZ2	D L S E E D L I K R A M E G N L L C C R C T G Y Q H I V R D A V Q L A A E K M
UniRef90_C5BKG5	S P S D A D I I D T A M Q G N I I C C R C G T Y P R I V K K A L K Q A G V Q I Q E V K H
UniRef90_F7CG46	E P S P Q Q L I T E A L L G G N L L C C R C T G Y R S I V L E S S K T F C A E S N
UniRef90_C7YW68	S P S K D D V I E E A F D G G N L L C C R C T G Y R S I V L D A A Q T F S V D K P G Q K F
UniRef90_Q1LRH5	N A D A Q A I I R D Q L E G N L L C C R C T G Y H N I V V R A V Q Q G Q A A M Q G S A A
UniRef90_UPI00036F4537	D P T R E D I I R D W F Q R N A C C R C T G Y K Q I V V D S V I V M D A A S V L N G K M A
UniRef90_UPI000374CB31	N P S E A E I I R E A L L E G N I I C C R C T G Y H N I V V K A I Q W A A
UniRef90_UPI000475F745	D P D E A T I V I R D G L I E G N Y C C R C T G Y H N I V V R A V R R A A E Q M
UniRef90_T2GDG0	S P C Y C R A E I V I R E A L L A G N L L C C R C T G Y V K I V V D A V M A A A E T M R D E
UniRef90_A3JMM6	D P T E E I V I R F W L I A G N L L C C R C T G Y D K I V I R A V M D T A A D L R
UniRef90_M5A278	T P T D T E I I R E E L L S S G N I I C C R C T G Y G R I V I D A V Q Q V A
UniRef90_L8GZ48	A P S L H Q I L E K S I I D G G N L L C C R C T G Y R P I V V D A L R S L E K E Y K G K Q S
UniRef90_C7PZT1	T P S D P E I I R E A L L A G N L L C C R C T G Y E K I V I L D A V R E A A A T K A G V
UniRef90_UPI00036CF9CE	S P V K A D I I E E A L L C G G N L L C C R C T G Y S G I V I L D A V R L A A A R Q D T A R T
UniRef90_D9UHJ8	S P S D A D I I R E A L L S S G N L L C C R C T G Y E K I V I L D A V R L A A A R Q D T A R T
UniRef90_D0CZJ1	S G Y D D A L L A G N L L C C R C T G Y A P I V V R A A E A A S E
UniRef90_G9QQ22	N P T V E Q I I L E G L I S S G N L L C C R C T G Y G G I V I I H A V L D A A E A I R
UniRef90_A0Z3A5	N P T E E E A R Y W L I A G N L L C C R C T G Y D K I V I I H A V L D A A E A I R
UniRef90_UPI00037648C2	K P T Q A E I I D E T M T G N L L C C R C G T Y H R I V I R E A V M A A S Q
UniRef90_A1SPN4	R P T V E E I I K E G I I E G N F C C R C T G Y E Q I V I V E A V L D A S G Q I D D P
UniRef90_Q12AU0	D P S E D E I I R R E L L S S G N L L C C R C G T Y H L I V I V K A V R R A A E I L M
UniRef90_S4P8P1	K V N F S D M E V A F Q G N L L C C R C T G Y R A I V I I E G Y K T F I E D
UniRef90_F7NKJ7	D P T E A E E A K E A I I A G N F C C R C T G Y V P I V I I A A I L S A A K L E K E A R A
UniRef90_X7ZBD9	A G S P A E I I R E W M S G N I I C C R C G A Y P N I V I V K A V A T V A R D
UniRef90_W7W967	Q P T R A E L V I A D E L L S S G N L L C C R C T G Y R P I V I L D A
UniRef90_UPI000369646A	L S D R Q S V I K D V I S S G N L L C C R C T G Y G P I V I V E A G L D L A R
UniRef90_F8EDQ5	N P T D A D I I D S A M R G H I C C R C G T Y D R I V I V R K A I K R A A K D
UniRef90_N2JL18	A Q T R D E I I R E Q M S S G N L L C C R C G A Y N N I V I I L A A I E Q A M P A C K G G P R
UniRef90_F2IZU7	E K R R R K T V I T D W L I A G N L L C C R C T G Y R P I V I V D A A L I D S C
UniRef90_C1DGA9	G P D R E R A C E A L L A G N L L C C R C T G Y R P I V I V L A A A E Q A C G A P E
UniRef90_UPI0003700269	L P S E A E V I V E R E G I I S S G N L L C C R C T G Y Q K I V I V E A A L M A A A K L Q G G
UniRef90_D8P1E7	P P S R E T L C D A L T G N L L C C R C T G Y R P I V I I D A G Q R M Y E L P A

UniRef90_C9YHB0
UniRef90_UPI00046CFE78
UniRef90_B2A7Q1
UniRef90_H5X5G3
UniRef90_D3F4R3 A
UniRef90_L7UEU3
UniRef90_G7LZE7
UniRef90_D5PB85
UniRef90_UPI0003B7017B
UniRef90_J2KMZ9 D E
UniRef90_M0N029
UniRef90_UPI00028889DB
UniRef90_G3WWT1
UniRef90_UPI0003611553
UniRef90_I2Q2K8 Q
UniRef90_K8PTS2
UniRef90_Q5FQV8 G E
UniRef90_G9WKR0
UniRef90_A1TZ32
UniRef90_F7QET1
UniRef90_E0QIN7
UniRef90_UPI000301409C
UniRef90_NOE1B3
UniRef90_X6GTB0
UniRef90_A0A017HAB0
UniRef90_B7UVJ8 D
UniRef90_M4IHN1
UniRef90_M0N7Z5
UniRef90_R4WSQ1
UniRef90_A0A016QR67
UniRef90_F8UGV6
UniRef90_I4BWM5 E
UniRef90_W4LYY3
UniRef90_Q6ARM6
UniRef90_UPI0003662753
UniRef90_G7DDK7 A E
UniRef90_R4KRQ0
UniRef90_UPI00041A8208
UniRef90_UPI000378957A
UniRef90_L0DLL1
UniRef90_I6ZHP4 D
UniRef90_D9W376
UniRef90_F4G7N6
UniRef90_K4THI2
UniRef90_K1Z602
UniRef90_UPI000333FD11
UniRef90_UPI0002C325EB
UniRef90_UPI000364A067
UniRef90_UPI00037CD9A2
UniRef90_A8UQNO
UniRef90_G8M647
UniRef90_E3J6J9
UniRef90_Q59128
UniRef90_H3FOA9
UniRef90_Q9VF50 E E
UniRef90_H2YPI3
UniRef90_A9D827
UniRef90_D5API5
UniRef90_D0MFF7
UniRef90_W0FNFM8
UniRef90_X0VLZ2
UniRef90_C5BKG5
UniRef90_F7CG46
UniRef90_C7YW68
UniRef90_Q1LRH5
UniRef90_UPI00036F4537
UniRef90_UPI000374CB31
UniRef90_UPI000475F745
UniRef90_T2GDG0
UniRef90_A3JMM6
UniRef90_M5A278
UniRef90_L8GZ48 E
UniRef90_C7PZT1
UniRef90_UPI00036CF9CE
UniRef90_D9UHJ8 E E
UniRef90_D0CZJ1
UniRef90_G9QQU2
UniRef90_A0Z3A5
UniRef90_UPI00037648C2
UniRef90_A1SPN4
UniRef90_Q124U0
UniRef90_S4P8P1
UniRef90_F7NKJ7
UniRef90_X7ZBD9
UniRef90_W7W967
UniRef90_UPI000369646A
UniRef90_F8EDQ5
UniRef90_N2JL18 E
UniRef90_F2IZU7
UniRef90_C1DGA9 P D
UniRef90_UPI0003700269
UniRef90_D8P1E7 P

1 10 20 30 40

UniRef90_Q8IND5
UniRef90_L0LYW4
UniRef90_UPI000377A467
UniRef90_I4N7N3
UniRef90_D2SAV5
UniRef90_H9JFH1
UniRef90_UPI0004647613
UniRef90_F2J2W0
UniRef90_Q07R30
UniRef90_J3D688
UniRef90_S9Q553
UniRef90_H8GBC5
UniRef90_X1Y5H4
UniRef90_T1HWZ8
UniRef90_Q2IVG7
UniRef90_W6K4X7
UniRef90_UPI00036CC4C7
UniRef90_X7EN88
UniRef90_V3Z0N9
UniRef90_E4N1W7
UniRef90_E1YFJ0
UniRef90_UPI000466AC6D
UniRef90_G8AXH8
UniRef90_D0LFU4
UniRef90_A0LJ14
UniRef90_UPI0003B37D51
UniRef90_W7J0C2
UniRef90_G9AJF9
UniRef90_F6ALJ0
UniRef90_I0GJ66
UniRef90_L0NJE7
UniRef90_C7D864
UniRef90_UPI000373B931
UniRef90_UPI00046354E9
UniRef90_R7Y1S3
UniRef90_Q2CGN9
UniRef90_Q98L90
UniRef90_UPI0003655A57
UniRef90_UPI000287BAEE
UniRef90_UPI000367869
UniRef90_I3TFF8
UniRef90_C6HIR2
UniRef90_T1EF24
UniRef90_R4WFQ7
UniRef90_W7TFQ7
UniRef90_UPI0002892A28
UniRef90_UPI000479E09D
UniRef90_UPI004207514
UniRef90_R6L390
UniRef90_M1M954
UniRef90_UPI000404B508
UniRef90_UPI0003F96374
UniRef90_D4GF08
UniRef90_UPI00035995FB
UniRef90_W7SUB3
UniRef90_F4AI86
UniRef90_C8RX03
UniRef90_F6ADB7
UniRef90_A1AP58
UniRef90_K6Y8E1
UniRef90_UPI00047787C1
UniRef90_I3X116
UniRef90_U1L155
UniRef90_R4KJP9
UniRef90_A3K684
UniRef90_B1Y3L5
UniRef90_J0Y7L4
UniRef90_UPI0004795B7A
UniRef90_K4A4W1
UniRef90_L2FR56
UniRef90_G0IXS8
UniRef90_A3T0Q3
UniRef90_K3WQ61
UniRef90_UPI0003C36AF5
UniRef90_UPI0003B4BD59
UniRef90_UPI0004793D91
UniRef90_G2FN41
UniRef90_Q0QLF3
UniRef90_G0AFF8
UniRef90_UPI00002221E2
UniRef90_D5BGX7
UniRef90_UPI00025588FA
UniRef90_A1ZHI8
UniRef90_S2DN18
UniRef90_U3HBZ3
UniRef90_A1WAF3
UniRef90_X6KVZ4
UniRef90_C6VRS9
UniRef90_K2MYP8
UniRef90_UPI000347FBE5
UniRef90_UPI00045E93D5
UniRef90_W0DCY2

UniRef90_Q8IND5
UniRef90_L0LYW4
UniRef90_UPI000377A467
UniRef90_I4N7N3
UniRef90_D2SAV5
UniRef90_H9JFH1
UniRef90_UPI0004647613
UniRef90_F2J2W0
UniRef90_Q07R30
UniRef90_J3D688
UniRef90_S9Q553
UniRef90_H8GBC5
UniRef90_X1Y5H4
UniRef90_T1HWZ8
UniRef90_Q2IVG7
UniRef90_W6K4X7
UniRef90_UPI00036CC4C7
UniRef90_X7EN88
UniRef90_V3Z0N9
UniRef90_E4N1W7
UniRef90_E1YFJ0
UniRef90_UPI000466AC6D
UniRef90_G8AXH8
UniRef90_D0LFU4
UniRef90_A0LJ14
UniRef90_UPI0003B37D51
UniRef90_W7J0C2
UniRef90_G9AJF9
UniRef90_F6ALJ0
UniRef90_I0GJ66
UniRef90_L0NJE7
UniRef90_C7D864
UniRef90_UPI000373B931
UniRef90_UPI00046354E9
UniRef90_R7Y1S3
UniRef90_Q2CGN9
UniRef90_Q98L90
UniRef90_UPI0003655A57
UniRef90_UPI000287BAEE
UniRef90_UPI000367869
UniRef90_I3TFF8
UniRef90_C6HIR2
UniRef90_T1EF24
UniRef90_R4WFQ7
UniRef90_W7TFQ7
UniRef90_UPI0002892A28
UniRef90_UPI000479E09D
UniRef90_UPI004207514
UniRef90_R6L390
UniRef90_M1M954
UniRef90_UPI000404B508
UniRef90_UPI0003F96374
UniRef90_D4GF08
UniRef90_UPI00035995FB
UniRef90_W7SUB3
UniRef90_F4AI86
UniRef90_C8RX03
UniRef90_F6ADB7
UniRef90_A1AP58
UniRef90_K6Y8E1
UniRef90_UPI00047787C1
UniRef90_I3X116
UniRef90_U1L155
UniRef90_R4KJP9
UniRef90_A3K684
UniRef90_B1Y3L5
UniRef90_J0Y7L4
UniRef90_UPI0004795B7A
UniRef90_K4A4W1
UniRef90_L2FR56
UniRef90_G0IXS8
UniRef90_A3T0Q3
UniRef90_K3WQ61
UniRef90_UPI0003C36AF5
UniRef90_UPI0003B4BD59
UniRef90_UPI0004793D91
UniRef90_G2FN41
UniRef90_Q0QLF3
UniRef90_G0AFF8
UniRef90_UPI00002221E2
UniRef90_D5BGX7
UniRef90_UPI00025588FA
UniRef90_A1ZHI8
UniRef90_S2DN18
UniRef90_U3HBZ3
UniRef90_A1WAF3
UniRef90_X6KVZ4
UniRef90_C6VRS9
UniRef90_K2MYP8
UniRef90_UPI000347FBE5
UniRef90_UPI00045E93D5
UniRef90_W0DCY2

UniRef90_Q8IND5
 UniRef90_L0LYW4
 UniRef90_UPI000377A467
 UniRef90_I4N7N3
 UniRef90_D2SAV5
 UniRef90_H9JFH1
 UniRef90_UPI0004647613
 UniRef90_F2J2W0
 UniRef90_Q07R30
 UniRef90_J3D688
 UniRef90_S9Q553
 UniRef90_H8GBC5
 UniRef90_X1Y5H4
 UniRef90_T1HWZ8
 UniRef90_Q2IVG7
 UniRef90_W6K4X7
 UniRef90_UPI00036CC4C7
 UniRef90_X7EN88
 UniRef90_V3Z0N9
 UniRef90_E4N1W7
 UniRef90_E1YFJ0
 UniRef90_UPI000466AC6D
 UniRef90_G8AXH8
 UniRef90_D0LFU4
 UniRef90_A0LJ14
 UniRef90_UPI0003B37D51
 UniRef90_W7J0C2
 UniRef90_G9AJF9
 UniRef90_F6ALJ0
 UniRef90_I0GJ66
 UniRef90_L0NJE7
 UniRef90_C7D864
 UniRef90_UPI000373B931
 UniRef90_UPI00046354E9
 UniRef90_R7Y1S3
 UniRef90_Q2CGN9
 UniRef90_Q98L90
 UniRef90_UPI0003655A57
 UniRef90_UPI000287BAEE
 UniRef90_UPI000367869
 UniRef90_I3TFF8
 UniRef90_C6HIR2
 UniRef90_T1EF24
 UniRef90_R4WFQ7
 UniRef90_W7TFQ7
 UniRef90_UPI0002892A28
 UniRef90_UPI000479E09D
 UniRef90_UPI0004207514
 UniRef90_R6L390
 UniRef90_M1M954
 UniRef90_UPI000404B508
 UniRef90_UPI0003F96374
 UniRef90_D4GF08
 UniRef90_UPI00035995FB
 UniRef90_W7SUB3
 UniRef90_F4AI86
 UniRef90_C8RX03
 UniRef90_F6ADB7
 UniRef90_A1AP58
 UniRef90_K6Y8E1
 UniRef90_UPI00047787C1
 UniRef90_I3X116
 UniRef90_U1L155
 UniRef90_R4KJP9
 UniRef90_A3K684
 UniRef90_B1Y3L5
 UniRef90_J0Y7L4
 UniRef90_UPI0004795B7A
 UniRef90_K4A4W1
 UniRef90_L2FR56
 UniRef90_G0IXS8
 UniRef90_A3T0Q3
 UniRef90_K3WQ61
 UniRef90_UPI0003C36AF5
 UniRef90_UPI0003B4BD59
 UniRef90_UPI0004793D91
 UniRef90_G2FN41
 UniRef90_Q0QLF3
 UniRef90_G0AFF8
 UniRef90_UPI00002221E2
 UniRef90_D5BGX7
 UniRef90_UPI00025588FA
 UniRef90_A1ZHI8
 UniRef90_S2DN18
 UniRef90_U3HBZ3
 UniRef90_A1WAF3
 UniRef90_X6KVZ4
 UniRef90_C6VRS9
 UniRef90_K2MYP8
 UniRef90_UPI000347FBE5
 UniRef90_UPI00045E93D5
 UniRef90_W0DCY2

	50	60	70	
Q	V S M S Q V	E D A F G G N L C R C T G Y R P	L D A M K S F A V D S N E V P A	
A	G S D A E I	R E Y M S G N L C R C G A Y N S	V A A V R Q A A E	
S	P S E K E I	R E A M N G N I C C R C A S Y N R	E K A V K V A S E K M	
G	T D D A S V	R E A M S G N I C C R C G A Y K N	V S A I Q S A R L K M	
E	P S D P E I	R E A L L A G N L C C R C T G Y E K	L D A V R L A T R R Q A A	
E	M T M L E I	E K S F G G G N I C C R C T G Y R T	L Q A F K Q Y A K D	
A	P T R E D I	V E A I S G N I C C R C T G Y G Q	V E A V E F A A E R L R K T N A	
R	D E E K T I	R H E L E E G N I C C R C T G Y H N	V K A I K A A A D Q M A A M K T	
E	L S D E T I	R E E L E E G N I C C R C T G Y Q N	V E S I A A G A R A M R S E P A	
N	P S D A D I	D A A M S G N I C C R C G T Y P R	K A A I K D A A S T L R	
V	P D E A T I	R H D L K G N I C C R C T G Y Q N	V A A I R S G A E A M	
K	P T R E Q V	R E G L E E G N I C C R C T G Y H N	V D A V I D A S G Q	
I	V T M A E V	E Q A L A G N I C C R C T G Y R P	L D A F K S F A	
Q	L T M V D V	E N S F G G N I C C R C T G Y R P	L D A F K S L A S D	
S	P T E Q E V	R E A L S A V L C C R C T G Y Q N	V T A V L E A A A A M R G D	
E	P T A E E A	R E A I S G N I C C R C T G Y Q N	V K S V L R A A E I I R G T D A	
D	P T R K E I	R D A L S G G N I C C R C T G Y H K	V D A V E D A A K R L Q	
K	P S E Q E I	R H Y L Q G N I C C R C T G Y H N	V R A I M A A S G Q	
Q	P N K E F I	E N N F D G G N I C C R C T G Y R P	L D A M K S F A	
Q	P S D T D I	R E A L S G N L C C R C T G Y E K	M D A V R L A S A R T C A R G A	
D	P T K E E V	K E A L F G F N L C C R C T G Y E K	V E A I L S V	
A	P T D E D I	D N A F G G G N L C C R C G T Y P R	R A A V K R A A G A P A G A	
A	S T P E Q I	K E Y M S G G N I C C R C G A Y V G	V A A I E Q A V P Q I E	
T	P S E E D I	R W A I S G N L C C R C T G Y Q N	V A A V Q W A A E R Q R E A A T	
D	P N D E E I	G R A M S G N L C C R C G T Y P R	L R A I R K A A G	
E	P T D E V I	D S V M S A N L C C R C G T Y P R	R A A V K S A G K A L K G	
T	G S D D E I	R E W M S G N I C C R C A A Y E Q I	V A A V R D A A E A H R A	
G	V D E H T V	R H E L E E G N I C C R C T G Y H N	V K A V L D A A E K H R A A	
C	A G D R E I	R E A L S G N L C C R C T G Y Q N	V A A V K K G S Q A M A G P A A	
N	P T D E D I	K K A I I D G N L C C R C T G Y V Q Q I	E A I K Y A I A L L K	
K	L D E A T V	R H Q L E E G N I C C R C T G Y H N	V K A V L A A E M A A G R Q A	
A	T D H D T Q L	A L A G N L C C R C T G Y A P	I R A A E A V Q E L P V	
S	P T E L E I	R T Q A I S G N L C C R C S G Y Q G	V L E A V R S A A D D T A G D P A	
N	P T D S D I	I D D A M Q G G N L C C R C G T Y P R	R A A I H T A A A Q M E G	
T	P T R E D I	V E T V S S G S L C C R C T G Y Q T	V S A I E Q A A A E	
D	I D E A L V	R H Q L E E G N I C C R C T G Y H N	V K A V L D A A Q Q T R	
E	G D E A T V	R A E L E E G N I C C R C T G Y H N	V K A I L A A S K T M	
D	P T D D E I	R L G L E E G N I C C R C T G Y Q N	V K	
N	P S R E E I	V A Y M M N G N I C C R C G T Y L R	I R A I K I A A T E V N	
A	G S A D E V	R F W M S G N I C C R C G A Y P G	V A A I A E L G Q R	
A	Y S E E E I	R S L I R G N L C C R C T G Y V N	V N K A L A K A	
A	P S K L A I	E E T F D G N L C C R C T G Y R S	L D A A Q S F S	
R	P R V R D I	E E S F Q G N L C C R C T G Y R P	V Q G F	
S	V S D E A I	T S A M S G N L C C R C G T Y A R	R R A I K R A A S	
E	A S A D F L	E E N M D G N L C C R C T G Y R P	L D A A K T	
A	P S D A E I	D A V M T G N L C C R C M T Y V R	R A A I K Q A V G Q T A A V P P	
T	G S A D E I	R E W M S G N L C C R C A C Y A N	V T A V Q D A A Q E I R	
N	P D R N E I	R R S L S G N I C C R C T G Y A K	M D A I E L A R D I L N	
E	L T R D E I	R K K M S G N L C C R C T G Y Q N	V N A V D K V	
N	P T R E D I	R N W F Q R N V C C R C T G Y K P	L D A V M E A A R L I R G E V T	
S	P S E S D I	E A A M Q G G N L C C R C G T Y N R	K D A I L T A S Q S L	
A	K T T A D I	K E L L M S G N L C C R C G A Y T N	V I S A I E E V I Q K	
D	W D R Q Q A	E H A L A G N L C C R C G A Y T N	M A A A E Q L V T Q A Q P D S F	
K	P T Q Q E I	E D S L D S H V C C R C T G Y R A	L D A M K S F G S D A T S P	
A	R S D E E I	R E A M S G N I C C R C G A Y P N	V D A I K Q	
D	P D D E T I	D S Y M Q G G N I C C R C G T Y P R	K A A I K T A A K	
Q	P T D A E I	D T A M A G N L C C R C G T Y P R	R A A I H D A A L R L A V T P	
V	G N A A D I	R E R M S G N L C C R C G A Y S N	L A A I E E A	
Q	P T R E R I	R E G L S G N L C C R C T G Y V K	V D A V E R A A T D I G G	
N	P S D T E I	V E Y M M N G N I C C R C M S Y K R	K E A I K Q V S S	
V	P S D A E I	R Q G M S G N L C C R C G A Y P N	V A A I R Q V V G E N S A P	
R	P C I Q E I	E K A L Q G N L C C R C T G Y		
P	G P K K A A I	H A L G G N L C C R C T G Y S P	I L L A V E K A	
N	P T R E E V	R T T W F H K N V C C R C T G Y K P	M A A I I R R A G E L L M R A A S L	
A	G D D P D I	R E G M S G N I C C R C A A Y H G	V D A C K S F A A D D V D	
P	A S R A T L	S D D L A G N L C C R C T G Y R P	F E A A R T F V E D L N G A K A	
A	H D T A Q I	Q E L L M S G N L C C R C G A Y N N	K E A V L L A S S K I K	
Q	P S E E E I	R E A L T T N L C C R C G T H M R	R E A V K S A A I K L K A V	
K	L T T S E A I	K E A V S G N L C C R C T G Y R P	F E A F H S F A V D K D V A P D	
T	H S D V I E	L Q G H L D G N L C C R C T G Y K P		
S	P S E E E V	V I E G M N A N L C C R C G T Y H R		
T	P T D D Q I	D A A M S G N L C C R C G T Y P R		
H	G T K Q V V	E D H F D G N L C C R C T G Y R P		
E	P T M D E I	E N S F G G N L C C R C T G Y R P		
A	H T E D E I	R E L L M S G N I C C R C G A Y V G		
H	P D D A E V	R Q A I I S G Q I C C R C T G Y A T		
K	P S K Q D I	A K A I I S G N L C C R C T G Y A K		
D	P T D E E I	T V A M S G N L C C R C G T Y P R		
G	S Q R K D I	D I A L I S G N L C C R C T G Y R P		
D	P S I D Q I	N A A I R A N L C C R C T G Y R P		
K	L S E E E I	R E R M S G N I C C R C G A Y N N		
Q	P T E A Q I	R A H L D G N I C C R C T G Y H N		
P	S D D D I	D E N I V N V C C R C G T Y Y R		
S	P S M Q E I	E D T M N K N L C C R C G T Y H K		
U	H D R D G I	R E Q M S G N L C C R C G A Y A N		
G	T R A Q A A E A L S G N L C C R C T G Y R P			
A	H D R D G I	R E Q M S G N L C C R C G A Y A N		
U	N 3 H B Z 3	R E Q M S G N L C C R C G A Y A N		
U	N 1 W A F 3	R E Q M S G N L C C R C G A Y A N		
U	X 6 K V Z 4	R E Q M S G N L C C R C G A Y A N		
U	C 6 V R S 9	R E Q M S G N L C C R C G A N V G		
U	K 2 M Y P 8	R E Q M S G N L C C R C G A Y A N		
U	U P I 0 0 0 3 4 7 F B E 5	R E Q M S G N L C C R C G A Y A N		
U	U P I 0 0 0 4 5 E 9 3 D 5	R E Q M S G N L C C R C G A Y A N		
U	W 0 D C Y 2	R E Q M S G N L C C R C G A Y A N		

UniRef90_Q8IND5 E
UniRef90_L0LYW4
UniRef90_UPI000377A467
UniRef90_I4N7N3
UniRef90_D2SAV5
UniRef90_H9JFH1
UniRef90_UPI0004647613 P
UniRef90_F2J2W0 A
UniRef90_Q07R30
UniRef90_J3D688
UniRef90_S9Q553
UniRef90_H8GBC5
UniRef90_X1Y5H4
UniRef90_T1HWZ8
UniRef90_Q2IVG7
UniRef90_W6K4X7 E
UniRef90_UPI00036CC4C7
UniRef90_X7EN88
UniRef90_V3Z0N9
UniRef90_E4N1W7 E K
UniRef90_E1YFJ0
UniRef90_UPI000466AC6D
UniRef90_G8AXH8
UniRef90_D0LFU4 A
UniRef90_A0LJ14
UniRef90_UPI0003B37D51
UniRef90_W7J0C2
UniRef90_G9AJF9
UniRef90_F6ALJ0
UniRef90_I0GJ66
UniRef90_L0NJE7 A E
UniRef90_C7D864 P
UniRef90_UPI000373B931 E
UniRef90_UPI00046354E9
UniRef90_R7Y1S3
UniRef90_Q2CGN9
UniRef90_Q98L90
UniRef90_UPI0003655A57
UniRef90_UPI000287BAEE
UniRef90_UPI00036D7869
UniRef90_I3TFF8
UniRef90_C6HIR2
UniRef90_T1EF24
UniRef90_R4WQF7
UniRef90_W7TFQ7
UniRef90_UPI0002892A28 E
UniRef90_UPI000479E09D
UniRef90_UPI0004207514
UniRef90_R6L390
UniRef90_M1M954 R E
UniRef90_UPI000404B508
UniRef90_UPI000396374
UniRef90_D4GF08
UniRef90_UPI00035995FB D
UniRef90_W7SUB3
UniRef90_F4AI86
UniRef90_C8RX03
UniRef90_F6ADB7
UniRef90_A1AP58
UniRef90_K6Y8E1
UniRef90_UPI00047787C1
UniRef90_I3X116
UniRef90_U1L155
UniRef90_R4KJP9
UniRef90_A3K684
UniRef90_B1Y3L5
UniRef90_J0Y7L4
UniRef90_UPI0004795B7A P D
UniRef90_K4A4W1
UniRef90_L2FR56 D E
UniRef90_G0IXS8
UniRef90_A3T0Q3
UniRef90_K3WQ61 D
UniRef90_UPI0003C36AF5
UniRef90_UPI0003B4BD59
UniRef90_UPI0004793D91 D D
UniRef90_G2FN41
UniRef90_Q0QLF3
UniRef90_G0AFF8
UniRef90_UPI00002221E2
UniRef90_D5BGX7
UniRef90_UPI00025588FA E
UniRef90_A1ZHI8
UniRef90_S2DN18
UniRef90_U3HBZ3
UniRef90_A1WAF3
UniRef90_X6KVZ4
UniRef90_C6VRS9
UniRef90_K2MYP8
UniRef90_UPI000347FBE5
UniRef90_UPI00045E93D5
UniRef90_W0DCY2

1 10 20 30 40

UniRef90_UPI000255916E	H P L Q Q A W V K H N V P Q C G Y C Q S G Q L M S A A A L L A N N P
UniRef90_N6YX9M9	A G G E L H P V Q Q A L V N C H G S Q C G F C T P G F A M S L W A C V A D G S
UniRef90_F0YVB5	P N G E L S D I Q Q A F I D E T A V Q C G F C T P G I I M S A V E I L E S G K
UniRef90_UPI00037AF7B5	U N I P O O D A F R E T A V Q C G F C T P G I I M S A V E I L E S G K
UniRef90_E6QJZ2	G A E L S D I Q Q A F I D E T A V Q C G F C T P G I I M S A V E I L E S G K
UniRef90_A7RK52	A T D K A L H P L Q Q A F I L A C G G S Q C G I C T P G M L M A A K H L L A H N S
UniRef90_A7SR70	D H R G H R E K R L A E H N G S Q C G F C S P G M V M N M Y S L L K E D I
UniRef90_G7DKN4	R L H P V Q E R I A K A H G V Q C G Y C Q S G Q I M Q A A S L L A K N A
UniRef90_W0A8S2	R D G M L H P V Q Q A M A D D H G S Q C G F C T P G M V M S M Y T L L R N R P
UniRef90_W4NDH3	A D G E L D V V Q Q A F I E C G A F Q C G F C T S G F I L M S R Q L L D R N P
UniRef90_N2JJ3	D R P H P L Q Q A F I D E Q A A Q C G Y C Q S G Q I M S A Q A L L S Q N T
UniRef90_R1EKD5	D N P H P L Q E R I A K L H G S Q C G F C T P G I V M S L Y A T Q E F H L
UniRef90_G2LVS0	A D G D T L H P L Q R A F I A N D A F Q C G Y C Q S G Q I C S A V G L I N E G K
UniRef90_L9W4P4	A E N G D L A P L Q E Q F Q E N H G C Q C G F C T P G M L M T A D T Y L K D A D
UniRef90_UPI0002DAD443	S K D G E L H P V Q E Q F L E A Q G F Q C G F C T A G M M M T A A T F D D E Q R
UniRef90_I0K698	K D G Y H P V Q Q A W N E V D V P Q C G Y C Q A G Q I M T A A A F L K R N P
UniRef90_Q16T61	S E N G D H A L Q Q K A W I E E D V P Q C G F C S S G M V M S M F S L L E A N G
UniRef90_X5E1F5	P D G E L S V V Q Q A F R D H H G L Q C G F C T P G F V V S V T A F L E E N P
UniRef90_D3D1Z0	A R N G E L D Y L Q Q A F L D A G A V C G Y C T P G M I L A A K V L L D R N P
UniRef90_H5Y1H3	T L G D L Q E A F A R H A L Q C G F C T A G M M T A A T A L L D R K P
UniRef90_A0A038H802	H K I Q T V L A D K N G S Q C G Y C S P G M V M N M Y S L I V Q N L
UniRef90_F4WWU4	H P I Q R S L V E A H G S Q C G Y C T P G M V M S Y A K W V D G K
UniRef90_C5L100	A N G R L S A L Q A S F L D H G A A Q C G A C T P G M I M T A K G F L N A N P
UniRef90_M5F1N4	A P D G T L H A V Q Q A F F L A E D A F Q C G F C T P G Q I M S A V A C L R E G H
UniRef90_D5RU93	S E G I N L D E L Q K S F I T N G A L Q C G Y C T P G M I M T A K G F L N A N P
UniRef90_UPI00047D0B66	P D D Q H P L Q Q Q A F S A H H A L Q C G F C T P G M L M S S Y D L L T T T P
UniRef90_UPI0001FFEFA2	P D G S L H P V Q Q A M V D C H G S Q C G F C T P G F V M S M W A L Y E R H G
UniRef90_UPI00036D6F88	P D G S L H P V Q Q A M V D C H G S Q C G F C T P G M V I S A K A L L D K N Q
UniRef90_B0TBF7	D R M H A V Q K A F V E H D A F Q C G Y C T P G Q I C S A I G L L K E G H
UniRef90_A0A021X723	H P I Q V T L A E N G S Q C G Y C S P G W V M A L Y S I L R N R
UniRef90_G6CNC9	H P I Q V Q A W V E E Q V P Q C G Y C Q S G Q I M Q A A N F L K H T P
UniRef90_UPI000468FE24	Q L H P V Q Q A V V D K H G S Q C G F C T P G I I M S L Y A L S K Q R Q
UniRef90_UPI00040A2245	A E K D K L L H P I Q E A I L N A H A T Q C G F C T P G V S L A I L A L Y L G K S
UniRef90_T0IUS7	A T P N N L H P L Q V A W M A Y G C A G F C S P G F I L S A K V L L D E K P
UniRef90_D7EK61	H P V Q Q I L A K F N G T Q C G F C S P G F I L S A K V L L D E K P
UniRef90_F8IBX2	P E D G L S P L Q M A F Q R H H A L Q C G F C T P G M V V T A T A L L Q Q K
UniRef90_S4R9U7	K L H Q V Q E R L A N A H G S Q C G F C T P G M V M S M Y A L L R T H P
UniRef90_D2QZX9	A E H G H L H P V Q Q S C F L E G A A L Q C G I C T P G F L M A T K A L L D K N P
UniRef90_Q5P3F2	S H E G N L S R L Q R A F L E H H L G S Q C G F C T P G F V M S L F G V C Q Q G Q
UniRef90_UPI00035F9750	G K P H K V Q Q E V L A Q G L G S Q C G Y C T P G V A M A L L E A C H R K D
UniRef90_Q08MR2	N P H P I E R L A K H G T Q S C G F C T P G M V M S V Y A L L R N N P
UniRef90_W4YUE6	D G E L D P V Q Q G F M Q C H G L Q C G F C T P G M M M T A R A L L D R E E
UniRef90_R9PCK7	S S D G S H P V Q R A W V E A D V V Q C G Y C Q S G Q I M T A V A L L E K R P
UniRef90_Q0S624	A E D G R P S D V Q R A L A R C H G A V Q C G F C V P G M A M T V H D L L E G N P
UniRef90_F2QQY7	A D K V G K A V Q E A W V K L D V P Q C G Y C Q S G Q V M T A T A L L R S N K
UniRef90_A0A017SWP6	A D G E R L H P V Q Q A F L E L Q V P Q C G W C M S G Q M M T A A A L L A A N P
UniRef90_B5ZJL5	S R D G L H A V H A R F A G F H A S Q C G F C T P G M C M S L V A P R E G F S
UniRef90_X0V3U0	H P L Q E A W K D L Q V P Q C G Y C Q S G Q I M Q A A S L L R D Y P
UniRef90_F4CNT2	S D H K N L H P L Q Q K S F L D E G A V P Q C G Y C Q S G Q I M Q A A S L L R D Y P
UniRef90_E3T661	A D G D T L H P M Q E A W I D R D V P Q C G Y C Q S G Q I M A A V A K V N Q C
UniRef90_D9XAA2	A D G E R L H A V Q E A F I A E E G G A Q C G I C T P G M I L A T V T L L E T X D
UniRef90_K8NJT8	A K D D V L S P L Q S A F R E S H G L Q C G F C T P G M I C S A I A V I E E H P
UniRef90_UPI00042B73A9	S K D G F H A I Q E R F A G F H A S Q C G F C T P G M C V S L F E P R P G F S
UniRef90_UPI00046A1B15	U N I P O O D A F R E T A V Q C G Y C Q S G Q I M Q A A S L L K D T P
UniRef90_UPI000466AE4D	A E S D K L H M L Q Q A F I E R D A F Q C G Y C T P G M I C S A A G L L N E N R
UniRef90_UPI00037DB5D5	A I D E K L H P I Q Q C F L E E G G A Q C G I C T P G M I L A T H H L L E K H P
UniRef90_D9V8T8	E P N D L Q Q A F S E H H G L Q C G F C T P G F I V A I I D L L R H H P
UniRef90_J6DEZ1	D K L G R I Q E A F R Q H H G L Q C G F C T P G F I V M A T L G Y L K T N P
UniRef90_UPI00047A46E0	P V Q R A W I E H Q V A Q C G Y C Q S G Q I M A A A A L L A E V P
UniRef90_G4D6U7	U N I P O O D A F R E T A V Q C G Y C Q S G Q I M A A A A L L A E V P
UniRef90_L7ZLN2	R P H P V Q R A F I E E Q A A Q C G Y C Q S G Q I M Q A A T L L D R N P
UniRef90_J9Y6X6	U N I P O O D A F R E T A V Q C G Y C Q S G Q I M Q A A T L L D R N P
UniRef90_UPI000255AFF6	N P H P V Q Q A W V E E Q V P Q C G Y C Q S G Q I M Q A A T L L K K V P
UniRef90_UPI000237ADBE	P D D G L S P M Q Q A F K D C H G L Q C G F C T P G F V V T L S A A E P D D
UniRef90_UPI0002FC3103	S P V Q K A F L E H W G F Q C G Y C T S G F I M N G H A L T E I H P
UniRef90_UPI0003607E11	U N I P O O D A F R E T A V Q C G Y C Q S G Q I M Q A A A L L S A H P
UniRef90_E1JTQ4	P D G G L H P L Q Q G A L D S Q A F Q C G Y C A P G F V M A T L G Y L K T N P
UniRef90_H9JFZ3	H D I Q T R L A K F N G T Q C G Y C T P G F I V M G W I M N M Y S I L E T K K
UniRef90_L8FH08	D D G S L G D L Q Q A F T E N H G L Q C G F C T P G F I V M G W I M L A Q G F I D E V P
UniRef90_Q9NCL9	H A V Q Q R L A H F N G T Q C G Y C S P G M V M N M Y S L L E K G G
UniRef90_D9T1Y7	A K G A E L D P V Q Q G F I Q C H G L Q C G F C T P G M M M T A R A L L N R N P
UniRef90_W9WDJ0	A E P G D L H P L Q Q A F I D Q D A F Q C G Y C T P G M I L V A M D M V R R H P
UniRef90_UPI0004774CB2	U N I P O O D A F R E T A V Q C G Y C Q S G Q I M Q A A T L L D R N P
UniRef90_UPI000466C52E	A T A E T L H P M Q E A F R E H H G L Q C G F C T P G M I L V A M D M V R R H P
UniRef90_D8IP18	R L L D A V Q T A F H E H A L Q C G F C T P G M I M S V R Q L L R S P P
UniRef90_A0KD26	Q D G R L D P V Q Q A F I D E Q G A Q C G Y C L N G M I M T L K A L L L R S P P
UniRef90_UPI0003829CAF	P N G Q H P V Q R A W V E K V P Q C G Y C Q C H G Q I M Q A A A L L K D K P H
UniRef90_V7EM57	P G G E M H P V Q Q A M V A H H G S Q C G F C T P G F V V S M A V G H
UniRef90_UPI000237A9D3	P D G D A H P V Q K T M V D L H G V A S Q C G Y C T P G F V M S M V A S H T N G
UniRef90_K6GNX6	D A P H P I Q T A F A V H G V A S Q C G Y C T P G M I T I A A A E L L A R D P
UniRef90_A5VDF6	E G A E A K A V Q D A W V A D V P Q C G Y C Q S G Q V M S A V A L L R E N P
UniRef90_UPI0003B6AAEA	P D Q D L H P V Q Q S F V E A Q G F Q C G F C T A G M I M T V A G M D D S Q
UniRef90_A3T029	D G P E A K A V Q Q A A W E A D V P Q C G W C Q S G Q V M S A T A L L R E I P
UniRef90_S6IWV3	R P H P V Q Q A F I V E C H G D G Y Q C G Y C T A G M I M T A K A L L D R I P
UniRef90_G8MNN9	A L H P L Q Q A F I V E C H G D G Y Q C G Y C T A G M I M S A V A L L D E P I
UniRef90_F2THY0	D K P H P L Q E R M G K L H G S Q C G F C T P G I V M S L Y S I I R N A Y

50 60 70 80

UniRef90_UPI000255916E	N P S E K D I D S A M S G N L C R C G T Y P R K A A I Q D A V Q Y Y N A G E Q
UniRef90_N6YXMF	R P D A A R I R S T L T G N L C R C T G Y R P V E A G E R M F D R P A
UniRef90_F0YVB5	Q Y T R E E L R K L L S G H L C C R C T G Y E N L N A V E K T M R E R G G
UniRef90_UPI00037AF7B5	E E G R A I T E D D L D G N L C C R C T G Y T R R E A I R T G A A R M
UniRef90_E6QJZ2	N P T L E E I R E A L A G N L C C R C T G F R F E S V L I A A T R K E
UniRef90_A7RK52	K P S K D K I E E S F D G N L C C R C T G Y R P L D A M K S F A A N A D P I D I
UniRef90_A7SR70	S P T L R D I D V A L G G N Y C C R C S C Y R S Y E G F K T F
UniRef90_G7DKN4	N P T K E E V V A H M D G N L C C R C M T Y S R Q K A I M R A A T E M R
UniRef90_W0A8S2	G T R G T A V A D V I G G G N L C C R C T G Y G P L A A G E A L A
UniRef90_W4NDH3	D P T E A E I R H F L S G N L C C R C A A Y P E I E A V K L A A R M R K P A
UniRef90_N2JJ3	U N P T D E Q V K R A L V G N L C C R C G C T H T R V K A I Q R A A G V M R
UniRef90_R1EKD5	S E D D I E R E G H L D G N L C C R C T G Y K P L Q A A K T F V E D L Q G R L A
UniRef90_G2LVS0	A H D R D Q V R E I L M S G N L C C R C G A Y P Q T D A V M E V M G K
UniRef90_L9W4P4	D P S R E E I R E A I E G N L C C R C T G Y H N V D A I E A T L E Q R E A
UniRef90_UPI0002DAD443	A N L P R N L K G N L C C R C T G Y R S A D A V
UniRef90_I0K698	K P A A A D I D S A M S G N L C C R C G T Y H R R E A V Q L A S T K L K
UniRef90_Q16T61	S V T M Q D V E S A L D D G N L C C R C T G Y R P L D A F K S F A
UniRef90_X5E1F5	S P S D E E I E M A M H G N L C C R C G T Y T R K K A I K T A A
UniRef90_D3D1Z0	K P T D D E I R D A L S S G N L C C R C T G Y Q G
UniRef90_H5Y1H3	H P T R Q R E E I L K A I S S G N L C C R C T G Y T K M V Q G V E L A A A S K E A
UniRef90_A0A038H802	N P D E H E V R E M L S G N L C C R C T G Y T P V A A V L D V A K R R Q A H S R
UniRef90_F4WWU4	T I S M Q Q I E N S F G G N L C C R C T G Y R A L D A F K E F A T D
UniRef90_C5L100	R Q V R D I E E S L D D G N L C C R C T G Y R P L Q G V Y N L V E S S Q G D
UniRef90_M5F1N4	C P T E A E T Q D A L G G L C C R C T G Y R K I A A V M D A G R F A R E P S T
UniRef90_D5RU93	A G S A A E T R E Y M S G N L C C R C G A Y P N
UniRef90_UPI00047D0B66	T P T L E E I K V A I S G N L C C R C T G Y K R I E A I I E V A E E
UniRef90_UPI0001FFEFA2	E V I S E E L P E Q M S G V L C C R C T G Y R G L A A V D D V
UniRef90_K0HY66	D P D E A A V R R E L S T G N L C C R C G T H V E I R A V L R A A Q L M R E A Q A
UniRef90_UPI00036D6F88	G P S R A E I A D A L T G N L C C R C T G Y R P V D A A E R F A M A P P A A P V
UniRef90_B0TBF7	Q P S K R E I K E A I R G N L C C R C T G Y V K E K A I D L A A A V L R G D
UniRef90_A0A021X723	A R T R E D I R E I L M S G N L C C R C G A Y T N A D A I E D V
UniRef90_G6CNC9	R P T M L E I E Q S F G N L C C R C T G Y R P L E A F K K F A
UniRef90_UPI000468FE24	N P T D E Q I T A A M A G N L C C R C M A V Y V R H R A V K R A A D M V G Q Q A
UniRef90_UPI00040A2245	A P A H P A E Y L A G N L C C R C T G Y G P I E A A N D V A E
UniRef90_H6LKX5	H P T K A E F N R Y L E G N L C C R C T G Y A S R K V L S S A A K E I R
UniRef90_T0IUS7	N P T R E D D V R D W F Q R N A L C C R C T G Y K P L D A V M A A A K V V R G E M R
UniRef90_D7EK61	L T K E E V V E N S F G G N L C C R C T G Y R S L A A F K S A C P E M R S P D I
UniRef90_F8IBX2	P L T E D S V R E A L S G N L C C R C T G Y Q F V D A V L D A A
UniRef90_S4R9U7	Q P P N A K Q L Q D T F Q G G N L C C R C T G Y R A I E G Y K P F I K V V E
UniRef90_D2QZX9	N P T E E Q I R F F N L A N N L C C R C T G Y D K V R S V Q A A R Q L Q
UniRef90_Q5P3F2	Q P S R D E I R A A L A L A G N L C C R C T G Y V K I E S V E A A A
UniRef90_UPI00035F9750	P V S R T Q A V E A L S G N L C C R C T G Y R P F D A A E A M A D L P
UniRef90_Q08MR2	M D E P W K W D A Q M C L C C R C T G Y R P R E A V V S V A G
UniRef90_W4YUE6	K P G M D D I L T A I E G N L C C R C T G Y R Q L D G F R T F C G D
UniRef90_R9PCK7	G H T E E D I E H S L D G G L C C R C T G Y R P L D A A K S F A
UniRef90_Q0S624	S P D E A T I R E A I S S G Q L C C R C T G Y T T V R S I Q W A A D H R A G E A A
UniRef90_F2QQY7	T V S M E E V S E A L D G N L C C R C T G L I P L D G L I N S F A
UniRef90_A0A017SWP6	D P T D A D I D A G M S G I V C C R C G T Y N R V R E A I H L A S R L K R G
UniRef90_S4MCG5	A P T E L E T R Q A L C L C C R C S G Y R G V D A V K E V V A E R E A H S A
UniRef90_F1VYI2	S P S D A D I D T Q A M S G N L C C R C G T Y Q R R A A I K D A S K T L
UniRef90_A9WCF2	T P T H E E M I A A M R Y N Y C C R C G T Y A R G R A V M R A A E L M K
UniRef90_W5BGH9	R L T S A D A E R A V V G N L C C R C T G Y R P A D A C K S F A A D D V D
UniRef90_B5ZJL5	N P T D E D I D A V M G G S L L C C R C M T Y I R I R D A I K K A A L A M R E E P
UniRef90_XOV3U0	K P T E D E I K D A L A G N L C C R C T G Y V K P I K V Q K
UniRef90_F4CNT2	A E G R D V D D A I I R N L C C R C G T Y N R I R E A I K A G A E N M
UniRef90_E3T661	D P T E T E I I R A A L A G N L C C R C T G Y M R F A A V R E A
UniRef90_D9XAA2	P L T P E E I R E R M S G N L C C R C G A Y V S V Q A V A R A A E E K G A V
UniRef90_K8NJT8	A A S D E R I V E V L S S G H L C C R C T G Y F P V E A I
UniRef90_UPI00042B73A9	K L T V A E A E K A I S S G N L C C R C T G Y R P A D A C K S F A A D D V D
UniRef90_UPI00046A1B15	N P S D E D I D A V M T G N L C C R C M T Y S R R Q A V R T A A T S M G A
UniRef90_UPI000466AE4D	A H T R A D I R E H M S G N L C C R C G A Y T N A D A V E D D V
UniRef90_UPI00037DB5D5	Q P T L Q Q E G L N G N L C C R C T G Y M R F N A V Q Q S A
UniRef90_D9V8T8	S P T R D E I R E T V S S N L C C R C T G Y Q T V D A I E A T A A K R A A E S A
UniRef90_J6DEZ1	L E T D E K I R E A L S S G N L C C R C T G Y E N V N A V R E L A R E
UniRef90_UPI00047A46E0	D P D D A Q I D D A L S G N L C C R C G T Y P R R A A V H R A A E L M R
UniRef90_G4D6U7	N P T D E E I K A S I K G N L C C R C T G Y V K E K A I K L A G E I F S G
UniRef90_L7ZLN2	A P S E A E I R Q A L S S G N L C C R C G T H L E L R A V Q R A A I L C R D E D A
UniRef90_J9Y6X6	N P S D Q D I V N H M S T N Y C C R C M A Y P R I K K A I K R A A
UniRef90_UPI000255AFF6	K P T D E D I D N N I I N V C C R C G T Y Y R M R K A I H R A A V V L N S E L P I
UniRef90_UPI000237ADBE	H P P D D A S I R E L L S G N L C C R C T G Y Q H V D A V N K A W G R T P G
UniRef90_UPI0002FC3103	D A S D P L V E N W L Q S N L C C R C T G Y Q E I K E A I K S V L A K
UniRef90_UPI0003607E11	H P E V D E I V A S M N G N L C C R C G T Y P R L R A I R E V A E
UniRef90_E1JTQ4	A P T R Q E L A H G I S G N L C C R C Q D Y D K L T G L L R G A E Y M R
UniRef90_H9JFZ3	A D T T Q E I E N S F A S N L C C R C T G Y R P A D A L K T F A K D A D
UniRef90_L8FH08	D P T R E E I R E V V A S N L C C R C T G Y Q S V D S I A S C A A N R R
UniRef90_Q9NCL9	Q V T M Q E V V E N A F G G N L C C R C T G Y R P L D A F K S L A V D A E P
UniRef90_D9T1Y7	D P T E A E I R E A I S S G Q L C C R C T G Y A T V R S V R
UniRef90_W9WDJ70	H P S H D E I R E R M S G N L C C R C G A Y P N V A A I R Q A A E R
UniRef90_UPI0004774CB2	P V D E A T V R A D L E G N L C C R C T G Y H N V K A I I T G A R A M G G P
UniRef90_UPI000466C52E	D A N E D D I R H G I A G N L C C R C T G Y H N V R A V V E S L V A K
UniRef90_D8IP18	T P S E D E I R H E L D F N L C C R C G T H V E L R A A L R I A V E L Q R G
UniRef90_A0KD26	K P T E Q E L R T H M E P N L C C R C G T H M R L A A V R S V A G L P A
UniRef90_UPI0003829CAF	K P T D A D I D A A M A M N L C C R C G T Y E R R A A L H R A A E
UniRef90_V7EM57	L N G R R D H D D V L A G N L C C R C T G Y A P I R A A E A V E G V P V
UniRef90_UPI000237A9D3	A T D H D T Q L A G N L C C R C T G Y A P I R A A E A V E G V P V
UniRef90_K6GNX6	A P D R E A A R R A L S G N L C C R C T G Y V K V D A V L A A G A A L R G E
UniRef90_A5VDF6	K P S D N D I D L A M N G N L C C R C A T Y V R R A A I H S A A K T L A A A
UniRef90_UPI0003B6AAEA	U R A D L P R S L K G N L C C R C T G Y R A T D A I
UniRef90_A3T029	N P T D E D I D N A M A G N L C C R C A T Y V R R E A I K N A A K E L E G
UniRef90_S6IWV3	Q P T D A Q I R H E L A G N L C C R C G T H L E V D A V R R A A R Q
UniRef90_G8MNN9	G P S D A D V R E A M S G N L C C R C G A Y Q N V E A I Q S V R A
UniRef90_F2THY0	D P N D E M K G H L D G N L C C R C T G Y K P L Q A A R T F V E D L K G Q L V

UniRef90_UPI000255916E Q E
UniRef90_N6YXM9
UniRef90_F0YVB5
UniRef90_UPI00037AF7B5
UniRef90_E6QJZ2
UniRef90_A7RK52 E E
UniRef90_A7SR70
UniRef90_G7DKN4
UniRef90_W0A8S2
UniRef90_W4NDH3
UniRef90_N2JJ13
UniRef90_R1EKD5 P Q
UniRef90_G2LVS0
UniRef90_L9W4P4
UniRef90_UPI0002DAD443
UniRef90_I0K698
UniRef90_Q16T61
UniRef90_X5E1F5
UniRef90_D3D1Z0
UniRef90_H5Y1H3
UniRef90_A0A038H802 E E
UniRef90_F4WWU4
UniRef90_C5L100
UniRef90_M5F1N4 D
UniRef90_D5RU93
UniRef90_UPI00047D0B66
UniRef90_UPI0001FFEFA2
UniRef90_K0HY66
UniRef90_UPI00036D6F88 D
UniRef90_B0TBF7
UniRef90_A0A021X723
UniRef90_G6CNC9
UniRef90_UPI000468FE24 E
UniRef90_UPI00040A2245
UniRef90_H6LKX5
UniRef90_T0IUS7 K E
UniRef90_D7EK61 E D
UniRef90_F8IBX2
UniRef90_S4R9U7
UniRef90_D2QZX9
UniRef90_Q5P3F2
UniRef90_UPI00035F9750
UniRef90_Q08MR2
UniRef90_W4YUE6
UniRef90_R9PCK7
UniRef90_Q0S624 E
UniRef90_F2QQY7
UniRef90_A0A017SWP6 P
UniRef90_S4MCG5
UniRef90_F1VY12
UniRef90_A9WCF2
UniRef90_W5BGH9
UniRef90_B5ZJL5
UniRef90_X0V3U0
UniRef90_F4CNT2
UniRef90_E3T661
UniRef90_D9XAA2
UniRef90_K8NJT8
UniRef90_UPI00042B73A9
UniRef90_UPI00046A1B15
UniRef90_UPI000466AE4D
UniRef90_UPI00037DB5D5
UniRef90_D9V8T8
UniRef90_J6DEZ1
UniRef90_UPI00047A46E0
UniRef90_G4D6U7
UniRef90_L7ZLN2 H D
UniRef90_J9Y6X6
UniRef90_UPI000255AFF6 T E
UniRef90_UPI000237ADBE
UniRef90_UPI0002FC3103
UniRef90_UPI0003607E11
UniRef90_E1JTQ4
UniRef90_H9JFZ3
UniRef90_L8FH08
UniRef90_Q9NCL9
UniRef90_D9T1Y7
UniRef90_W9DJT0
UniRef90_UPI0004774CB2
UniRef90_UPI000466C52E
UniRef90_D8IP18
UniRef90_A0KD26 P E
UniRef90_UPI0003829CAF
UniRef90_V7EM57 P E
UniRef90_UPI000237A9D3
UniRef90_K6GNX6
UniRef90_A5VDF6
UniRef90_UPI0003B6AAEA
UniRef90_A3T029
UniRef90_S6IWW3
UniRef90_G8MNN9
UniRef90_F2THY0 E

UniRef90_V2HUD6
 UniRef90_A0A017TK14
 UniRef90_R5PYC3
 UniRef90_Q7G191
 UniRef90_UPI000362FBCC
 UniRef90_J5PLV3
 UniRef90_UPI00047DF2B7
 UniRef90_C6PWA1
 UniRef90_F1KS69
 UniRef90_UPI000474E215
 UniRef90_C7HVM3
 UniRef90_H3FYV0
 UniRef90_A3IP65
 UniRef90_I4JGB0
 UniRef90_X7F8V5
 UniRef90_UPI0002194997
 UniRef90_UPI00047D8CB8
 UniRef90_H8G4Y7
 UniRef90_S2KFU7
 UniRef90_A5C1M0
 UniRef90_C0N266
 UniRef90_D8KXX2
 UniRef90_E5L4Q8
 UniRef90_J3GWG6
 UniRef90_W1NC16
 UniRef90_K4TAF0
 UniRef90_W6RJ42
 UniRef90_UPI000465472F
 UniRef90_K6VKZ4
 UniRef90_UPI0003702023
 UniRef90_M1ZDJ4
 UniRef90_V2ILW0
 UniRef90_UPI0003F8B182
 UniRef90_B2T854
 UniRef90_H0J127
 UniRef90_D9V2G4
 UniRef90_UPI0003735995
 UniRef90_UPI00036C04DA
 UniRef90_W9BU65
 UniRef90_A4FL4
 UniRef90_W0E3P1
 UniRef90_D7CF8
 UniRef90_S6H2F0
 UniRef90_UPI0002F84D17
 UniRef90_A4IK81
 UniRef90_F2GBB1
 UniRef90_Q01S40
 UniRef90_UPI000378182A
 UniRef90_UPI0003781C59
 UniRef90_UPI0004290A5A
 UniRef90_D2ASD9
 UniRef90_C6WK13
 UniRef90_UPI000465AF35
 UniRef90_W8EV01
 UniRef90_A4YZ38
 UniRef90_UPI0003B46503
 UniRef90_UPI000380241E
 UniRef90_UPI00041EF934
 UniRef90_E1R0Y5
 UniRef90_V4L5L5
 UniRef90_D9VLZ5
 UniRef90_R9MD45
 UniRef90_G9PXQ0
 UniRef90_UPI0004783473
 UniRef90_D1B8R5
 UniRef90_R1GYT3
 UniRef90_U5HG17
 UniRef90_D8RLG8
 UniRef90_J2CTG9
 UniRef90_A0A021W4J7
 UniRef90_X6DFJ1
 UniRef90_B8HOT9
 UniRef90_T1CCW6
 UniRef90_E3HJD0
 UniRef90_Q1YH25
 UniRef90_UPI00016A6B6B
 UniRef90_B2TKN2
 UniRef90_I4B3S8
 UniRef90_FOLWY1
 UniRef90_UPI000478822D
 UniRef90_D9V113
 UniRef90_A3YHM1
 UniRef90_K9E0T2
 UniRef90_Q2G7N0
 UniRef90_Q399E1
 UniRef90_F8JUB8
 UniRef90_A1SH62
 UniRef90_H1S2M2
 UniRef90_UPI00037A5065
 UniRef90_UPI0003B4C04A
 UniRef90_A4A7F2
 UniRef90_I1M7D9

1 R N G Q L H P V Q A A F I A H D G F Q C G F C T P G Q I C S A V G M L R E V Q
 10 G H L S P L Q R C F I D H G G A Q C G I C T P G V L I S A E H L L R R N P
 20 H P I H K R F A G F H A S Q C G Y C T P G M V M A A A L L S V N P
 30 G H L H P V Q R Q F R D A P G F Q C G F C T A G M I M T S A T F T E A Q
 40 A Q G D T L H P M Q E A F R D N H G Q C G F C T P G M I M T A D M V R R G P
 50 P I Q K A F V D N F A F Q C G Y C T P G F I M N C H S L I K Q H P
 60 P I Q Q A F V D N F S F C G Y C T S G F L M V C Y A L T N H P
 70 A P G D E L H P V Q R A F L D Q D A F Q C G Y C T P G Q V V S A T E I I S R G K
 80 R M H T I Q E R L S R G H G T Q C G F C S P G F I V M A M Y S L L R N S P
 90 A S D G S L S I I Q Q A F V D E A A V Q H G S Q C G F C T P G F I V M A M Y S L L R N T P
 100 E D N L H P V Q Q A F I E N D G F Q C G Y C T P G Q I C A A V A L L E E V K
 110 A D P V G Q V V Q Q A W L E V G V A Q C G Y C Q G G Q I M S A T A L L K D N R
 120 G A V A D L Q Q A A F V A R N A L Q C G Y C T P G M L V A A K A L V E R E T
 130 S P I Q K T F I E K W A I V Q C G Y C T P G M L I S A V V G L L K K K P
 140 L D P V Q E G F R A E H G L Q C G F C T P G M M M T A R W L L D R N P
 150 H P I H E R F S G F H A S Q C G Y C Q G G Q I M M A T G L L K Q N A
 160 H P I H E R F S G F H A S Q C G Y C T S G F I M C M S F F S A L V N A Q
 170 S K D G L H P I H K R V A G F H A S Q C G F C T P G M C V N R L D T P P G F S S
 180 K D G F H S I H E R F A G F H A S Q C G Y C T P G M C M S F T D P S A G F S S
 190 Q D P V M A L L R E A F S E H A L Q C G Y C T P G M L T T A R D I V L R L P
 200 A D G D Q L H P S Q A A M V E C H G S Q C G F C T P G M V M S F T L H E Q Q R
 210 E D E V G R A V Q Q A W T E I G V P Q C G Y C Q S S G Q I M S A T A L I K S N P
 220 G E L H P M Q A A F V K H D G F Q C G Y C T P G Q I C H V T G D L N S P A
 230 A D G E A L S P L Q Q A A F V K H D A F Q C G Y C T P G Q I C S A T A V T K E K V
 240 E N G E L H P L Q Q A E F I E R D A F Q C G Y C T P G Q I C H V T A G L S G T P
 250 Q D E T G K K V Q D A W L S L G V P Q C G Y C Q A G Q V M S A T A L L K Q H P
 260 P I Q Q K A F I V E N W G F Q C G Y C T S G F I M V C H S L S I H H P
 270 A D G D R L H P M Q A A F V A H D A L Q C G Y C T P G Q I C S A V A M A H S A A
 280 L S V V Q E A F H A G L Q C G F C T P G M L M T A S E Y L R T D G
 290 A A N G V L S P I Q Q R A F I I E H D A F Q C G Y C T P G Q I C S A T A L L N E F R
 300 A D G N Q L H P A Q A A M V K C H G S Q C G F C T P G Q I V M S L F T L H E Q Q R
 310 A D G G D P H P V Q Q A Q F V E A G V Q C G F C T P G Q I V G A R G W Q H F P
 320 N M D P I Q Q A F C A E G A T Q C G Y C T P G F I V M A R S F D I H H
 330 S S E E G L H P V Q Q A F V A E Q A V Q C G F C T P G M I I A A S V L L R K N S
 340 S P D G R H P L Q L A W I V E V P Q C G Y C Q S S G Q I M S A A A L L A T H P
 350 P D G E P H P L Q R A F S A E H A L Q C G F C T P G F I M V A A G E A D P T I
 360 A E D D V L S D L Q Q A F R R H H A L Q C G F C T A G I L M S C V D F I E R V P
 370 L Q Q A F I D E Q A A C Q C G Y C T P G M I M A S E A L L R K L P
 380 P I Q H A F V R H F A F Q C G Y C T S G Q I C S G V A V T Y S N R
 390 A N D D A L H P I Q Q A F I E R D A F Q C G Y C T P G Q I M T A A A L L A K T A
 400 D R A N P I Q Q A A W I Q E D V P Q C G Y C Q S S G Q I C H V T A D L E H A P
 410 A D G E L H P I Q Q A Q F I E D D A F Q C G Y C T P G Q I C S A V A M A D D T I
 420 A D G D T L H P L Q Q A A F I E H D G F Q C G Y C T P G Q I C S A V A M L K T K P
 430 K D K I A E A V Q H A W V E L Q V P Q C G Y C Q S S G Q I M S A T A L L K T K P
 440 A D G D T P H P L Q T A F V E H D A F Q C G Y C T P G Q I C S A A G M L A E A A
 450 A G E G G L H P M Q R A W L D L V S Q C G Y C Q P G Q I M A A V A L V R R V A
 460 D N L H P M Q A A F V K H D G Y Q C G Y C T P G Q I C S S V A V L K E I P
 470 A A R G T L T P V Q Q A I V Q E G G S Q C G F C T V G F V M S L T G H A L S E K
 480 H P V Q Q A K W R Q V N V P Q C G F C T C Q A G Q V I M Q A A A L L N E N P
 490 V Q E A F M N E G G F Q C G Y C T P G M I M A T E S L L R H T P
 500 S E G D R P H P V Q Q A Q F L E H D G F Q C G Y C T P G Q V C H V T E N L E E E P
 510 D E L N D L Q Q A F T D H A L Q C G F C T P G F L M L A E G F L A E R P
 520 H P L V Q Q A Y A D N H A M Q C G Y C T P G F V V V T A K A L L D R N A S
 530 S R D G F H S I H N R F S S F H A S Q C G F C T P G M C V S L Y E K T E S S S
 540 D D G R P H P L Q E A F V A R D A L Q C G F C T P G Q L C M A E L A A E G A
 550 A Y G E A G A V Q C G F C T P G M V L C T K A L L D K N T
 560 A F G A M G S V Q C G F C T P G M V M A G K A L I D R S P
 570 Q P G N L H P M Q A A F V K H D G F Q C G Y C T P G Q I C S S V A V L E E I K
 580 A F A S T G A V Q C G F C T P G M V M I S A K A L L D Q N L
 590 D N P H P L V Q A W E I Q V P Q C G Y C Q S S G Q I M A A S A L L A S N P
 600 R L H A V Q R R F L G F H A S Q C G F C T P G M C M S L Y G G L K N Q Q
 610 A S D G T L H P V Q A A L K D C H G L Q C G F C T P G Q I I M T L A A L T A D R
 620 D K L H P M Q A A F I K H D G Y Q C G Y C T P G Q I C S A V A M L T A R P
 630 A D G D R L H P V Q Q A A F I A R D G F Q C G Y C T P G Q I C S A V G M A A A S V
 640 D Q A L H P V Q Q A M V D K H G S Q C G F C T P G Q I V M S L Y S R A V G A
 650 P S P G L S R L Q R A F V E T G A T Q C G F C T P G F I V V S A S A L L A S T P
 660 A D A V G R A V Q Q A W I E Q N V A Q C G Y C Q A G Q V I M T A V S L L K A S A P
 670 E G A E A E V Q Q A A W T A I D V P Q C G Y C Q S S G Q I M S A V V S L L Q F N P
 680 D A P H P I Q Q R A F I D E Q A A Q C G Y C L N G M I M S T K A L L D R N P
 690 A F T E A G A V Q C G F C L P G M V I S A K A L F N R T L
 700 S S Q G E L H P A Q K A M V E C H G S Q C G F C T P G F V V M A L A H P V E G Q R
 710 Q G D A L H P V Q Q M V D K H G T Q C G F C T P G I V M S L Y A L S K Q E T
 720 S P A D G L H P V Q R A W V E I Q V P Q C G Y C Q P G M I M A A A A L L R G T P
 730 L H P V Q H E M A V R G G S Q C G Y C T P G F V C S M A A E Y Y R S D
 740 E D K T A K V V Q A A W N E K D V V Q C G Y C Q S S G Q I M S A V V G L L K Q N P
 750 L Q Q A F I D E Q A A Q C G Y C Q A G M I M Q A T A L L E R E P
 760 A D P V G K R V Q N A W I A L D V P Q C G Y C Q A G Q V I M S A T A L L R Q T P
 770 A V Q Q K A W I D E Q V P Q C G Y C Q S S G Q V I M S A V V A L L T V K P
 780 A R D G M P S D V Q R A L V D H G A V Q C G F C V P G L A M T L H D L L E G N H
 790 G E L H P I Q Q A A F V E S G A L Q S G Y S A G A M V L A T Q A L L A R D P
 800 A S A G Q P D P V Q Q A F I D E Q A A Q C G Y C L N G M I M T A K A L L A E H P
 810 H R L I R A F V E E G A V Q C G H C T P G F I V V V A A Y H L L I K E V P
 820 P G E G L H P L Q T A W I E K Q V P Q C G Y C Q S S G Q I M S A A A L L D S N P
 830 A L A P I Q E A F V V A A G G F Q C G Y C Q S S G Q I M S A V V G L L K Q N P
 840 H P I H K R F A G F H A T Q C G F C T P G M C V S L F G T L V N A E

50 60 70 80

UniRef90_V2HUD6	D [S E A E V R E R M S G N L C R C S A Y P N V A A I R S A A G S Q R
UniRef90_A0A017TK14	D P D D A I R E A L L A G N L C R C T G Y Q R I E S V R A A A V L R R A D A R
UniRef90_R5PYC3	N P T P A D V R K A I I N R N I C C R C T G Y K K I E S V L Y A A E I I L R G E K P
UniRef90_Q7G191	S Q S S P D Y E K S I A G N L C C R C T G Y R P A D A C K S F A S D V D
UniRef90_UPI000362FBCC	K A D L P R A L K G N L C C R C T G Y R G E D A V K G V A G V A E A A P
UniRef90_J5PLV3	V L D D H T I R E E L E E G N L C C R C T G Y H N V K S I I K S V L K E
UniRef90_UPI00047DF2B7	D A D D Q T I K E W L R S S N I C C R C T G Y A E E K A I K S V L K E
UniRef90_C6PWA1	D T N D Y V I A E E L Q S S N I C C R C T G Y E E N N A I K S V
UniRef90_F1KS69	H P S T D E I D E A I I R G N G L C C R C T G Y R P L E S F
UniRef90_UPI000474E215	Q L T D E E I I R E R L S G N L C C R C G A Y V N V A A V R Q A G E G A P
UniRef90_C7HVM3	Y Y T I D E L R K E L A N H M C C R C T G Y E N L I A V Q K A
UniRef90_H3FYV0	E P S V Q Q I N E A M Q Q N L C C R C S A Y N G V A A V Q Q A L G Q T A P S P I
UniRef90_A3IP65	Q V S E A E I K E R L L S G N L C C R C G T Y T R R A A I H N A A A K L Q E A K A
UniRef90_I4JGB0	N P D D A Q I E A A M A G N L C C R C G T Y T R R A A I H N A A A K L Q E A K A
UniRef90_X7F8V5	V P S R A E I R E H M G S N Y C C R C T G Y E A V D A I E T A A R A R A G E A T
UniRef90_UPI0002194997	D P T D T D I R K G R G N I C C R C T G Y V K V E A I K V A A K M L R E E P I
UniRef90_UPI00047D8CB8	D A D D S V I E E W M E S N L C C R C T G Y H E K E A I R A V L A E A K N N P A
UniRef90_H8G4Y7	T P S E E E I R E A L L S G Q L C C R C T G Y E N V R S V R
UniRef90_S2KFU7	N P S D Q Q I D D A M M S G N L C C R C G T Y T R R Q A I H R A A E
UniRef90_A5C1M0	K T Q R P E P P R A I A G N L C C R C G T Y P R P A D A C K S F A A D V D
UniRef90_C0N266	Q P N D E D I N N A M S G N L C C R C G T Y N R R D A I L K Q A A N K L E A D
UniRef90_D8KXX2	K V T V T E A E K A I I A G N L C C R C T G Y P R A D A C K S F A G D V D
UniRef90_E5L4Q8	K L T A A E A E K S I A G N L C C R C T G Y R P A D A C K T F A A D V D
UniRef90_J3GWG6	E A D E H R I R V E L L S G N I C C R C T G Y M G V E A I R S V L A Q L R E Q P D
UniRef90_W1NC16	Q Q P A P L S A R E L L S G N I C C R C T G Y R P R D A A A L A M N D M P G
UniRef90_K4TAF0	K P S D E D I D A A M S G N I C C R C G T Y P R R A A I K Q V A V K
UniRef90_W6RJ42	Q L T A A E V R E R M S G N I C C R C G A Y S N L D A I S E F A G
UniRef90_UPI000465472F	E L I D E E I R E R M S G N L C C R C G A Y N N V D A I M E V A E
UniRef90_K6VKZ4	Q L S E A E I R E R L L S G N L C C R C G A Y P N V A A V R D V A E
UniRef90_UPI0003702023	Q P S D A D I D K A M S G N L C C R C G T Y P R R A A I K Q A A G
UniRef90_M1ZDJ4	D A D E H T I E E W L Q S N L C C R C T S Y Q E R D A I
UniRef90_V2ILW0	A L T D D E I R E R M S G N L C C R C G A Y P N V A A I R S V A A
UniRef90_UPI0003F8B182	S P D R E N I R E A I L S G N L C C R C T G Y E T V N A I F K A A Q R
UniRef90_B2T854	N G T D E E I R E R M S G N I C C R C G A Y A N V A A V R A V
UniRef90_H0J127	R E T P Q R I E A A L L G G N L C C R C T G Y R P R D A A A L S
UniRef90_D9V2G4	U I L D D E I R E R M S G N I C C R C T G Y E K L G A V R L A A A Q R M R P P
UniRef90_UPI0003735995	S P S E A E I R E H M Q P N I C C R C G T Y H R I R A I K R A S A I L
UniRef90_UPI00036C04DA	V P T E D E V M K A L S G N L C C R C T G Y T K I K A V Q T A A Q K
UniRef90_W9BU65	D P S D A E I V D A A I R N L C C R C G T Y P R V R A A I K R A G R V M R
UniRef90_A4FIL4	D V E D V R E F M S G N L C C R C A A Y P N V A A V E Q A
UniRef90_W0E3P1	Q P S P E Q I D A A M S G N V L C C R C G S Y A R R R A I Q R A A
UniRef90_D7CF8	G D D P E R V H G L V E S N I C C R C T G Y E P R R A I M R A A R
UniRef90_S6H2F0	A P D E T Q V R D M L S S G H L C C R C T G Y T G M V E A I K L A A E R G E G L
UniRef90_UPI0002F84D17	R P T E E E I R V G I S S G N L C C R C T G Y T M V E A I K L A A E R G E G L
UniRef90_A4IK81	N A D Q S T I Q E W L Q S S N I C C R C T S Y Q E E E A V K E A
UniRef90_F2GBB1	A S L K E D I S E R M S G N L C C R C G A Y P N V D A I T D V I A L E R
UniRef90_Q01S40	N P S D A D I D E A M R N N N I C C R C G T Y Q S R R A V H L A A E L R R
UniRef90_UPI000378182A	D L D D D E I R E R M S G N L C C R C A A Y P N V V A I R T V A S
UniRef90_UPI0003781C59	U I L T R D E I V R E R M S G N L C C R C G A Y H N V D A I L E V
UniRef90_UPI0004290A5A	N P T D A D I D A A M Q G N N I C C R C G T Y Q R V R S A I H R A A E M I L K
UniRef90_D2ASD9	A G D D D E I R E R M S G N L C C R C G A Y V N V V A I G E V A R
UniRef90_C6WK13	A E G R A V T D A D L D G G N V C C R C G A Y P R V R E A I R A G G E A M R D S P
UniRef90_UPI000465AF35	Q M T A D E I R E R M S G N I C C R C G A Y S N L A I E E V A G
UniRef90_W8EV01	T S T P T S A L A S D C D G N I C C R C T G Y K S L E R A Q H L T A Q L Q Q R P
UniRef90_A4YZ38	K P S H D Q I R D A M S G N I C C R C G C Y Q R E N A V H L A S
UniRef90_UPI0003B46503	D P D D E Q I R E G L S S G N I C C R C T G Y S G I R A V R A S
UniRef90_UPI000380241E	D L D D E I R E R M S G N L C C R C G A Y T N V S A I R E A A E
UniRef90_UPI00041EF934	D A S R E E I I R E T V A S A N L C C R C T G Y Q T V D A V E D C A
UniRef90_E1R0Y5	N P S K E E I I S A L E G N I C C R C G T Y P A H V R A V Q D A A K R L Q E K E A
UniRef90_V4L5L5	E F T V L E A E K A V V S S G N I C C R C T G Y R P V D A C K S F A S D V D
UniRef90_D9VLZ5	E A T R E A V A E R L L S G N I C C R C G A Y P R V D A V R D V
UniRef90_R9MD45	E P S E E E I I R Y A L R L N N Y C C R C T G Y V K I I A V K L A A R I M R E G V I
UniRef90_G9PXQ0	A P T E A E I K Q A V R G N I C C R C T G Y K K I E G I D L A A A I L R G D A V
UniRef90_UPI0004783473	A N T S A E I I R E R M S G N I C C R C G A Y S N L D A I N E V A G V P A
UniRef90_D1B8R5	N P T R K D I K E A I R G N I C C R C T G Y V K E D A I E K A A W A F R E V P V
UniRef90_R1GYT3	S P T D A D I D A A M M G N N I C C R C A T Y V R R E A I K Q A A T E L R
UniRef90_U5HG17	T V E D V E L E G V L D G G N L C C R C T G Y A P L V A V K S F V G
UniRef90_D8RLG8	R R V S V D G G K Y I I Q G G S L C C R C T G Y R P V D V C K S F G S S V D
UniRef90_J2CTCG9	T P D A A Q M T A A L S G N H I C C R C T G Y Q G R R A V R Q L A D A P K V P H
UniRef90_A0A021W4J7	K V S G E E I I R E R M S G N I C C R C G A Y S N V D A I T E V A G R
UniRef90_X6DFJ1	A L D D A E I I R E R M S G N I C C R C A A Y P N V V A I R D A A G E
UniRef90_B8HOT9	K G A D A P V G E V L A G N L C C R C T G Y G P I E V A Q G V E A E A P P A
UniRef90_T1CCW6	H P S R E E E V V Q A L L G G N L C C R C T G Y T K I E A V L R
UniRef90_E3HJD0	Q P T D Q D I I E D A M M S G N I C C R C G T Y P R V R R A I Q Q A A K L L
UniRef90_Q1YH25	T P S D E D I I D N A M A G N I C C R C A T Y Q R R Q A I H D A S D T L E G
UniRef90_UPI00016A6B6B	S P D D A A I I R D A L L R F N L C C R C G T H L E I R A V H R A A R Y L R
UniRef90_B2TKN2	E P T M E D V K K A L I L G N I C C R C T G Y V K E K A I M M A A E I F R
UniRef90_I4B3S8	A I D A S O L I K D K L L A G N I C C R C T G Y E A V K A
UniRef90_FOLWY1	A A P E N P S D F L L A G N L C C R C T G Y G P L I D A
UniRef90_UPI000478822D	S P T D A E I I D A T I T N L C C R C G T Y P R V R R A I I R A L A A Q
UniRef90_D9V113	R D A T S D D H H A L S G N L C C R C T G Y R P R D A A A H A L G A P P A
UniRef90_A3YHM1	S P S D A E I I E A A M Q G N V C C R C A T Y V R K D A I I K T A A K N L E A
UniRef90_K9E0T2	N P S D A R I I R A H M S P N L C C R C G T H M R L R A V R R A A D R L A A
UniRef90_Q2G7N0	K P S A E D I I D G W M S G N I C C R C A T Y L R I R A A I R Q A A G L P A
UniRef90_Q399E1	D P T D G D I I D A A M S G N I C C R C A T Y Q R I R V A I H K A A E N L K A
UniRef90_F8JUB8	R P T E L E T R Q A I I C G N L C C R C S G Y Q G V L A V V R Q V
UniRef90_A1SH62	D P S E W E I I R D A F S G N L C C R D E T G Y V K V V D A V Q R A A A L L R G E K P
UniRef90_H1S2M2	D P D E A Q I I R E A L R F N L C C R C G T H V E I L R A V V Q R A A V V L L R Q A A G
UniRef90_UPI00037A5065	R P S E E M V I I R E A L R G N L C C R C T G Y V K V R A V V M K A A G E
UniRef90_UPI0003B4C04A	N P D D A A I I D A A M A G N V C C R C G M Y S R G D A I C L A A G I T N G E P A
UniRef90_A4A7F2	K T T C P E P A G F S G N L C C R C T G Y R P A D V C K S F A A D V D
UniRef90_I1M7D9	K T T C P E P A G F S G N L C C R C T G Y R P A D V C K S F A A D V D

UniRef90_V2HUD6
UniRef90_A0A017TK14 D
UniRef90_R5PYC3
UniRef90_Q7G191
UniRef90_UPI000362FBCC
UniRef90_J5PLV3
UniRef90_UPI00047DF2B7
UniRef90_C6PWA1
UniRef90_F1KS69
UniRef90_UPI000474E215
UniRef90_C7HVM3
UniRef90_H3FYV0
UniRef90_A3IP65 A E
UniRef90_I4JGB0
UniRef90_X7F8V5 E
UniRef90_UPI0002194997 P D
UniRef90_UPI00047D8CB8
UniRef90_H8G4Y7
UniRef90_S2KFU7
UniRef90_A5C1M0
UniRef90_C0N266
UniRef90_D8KXX2
UniRef90_E5L4Q8
UniRef90_J3GWG6 P
UniRef90_W1NC16
UniRef90_K4TAF0
UniRef90_W6RJ42
UniRef90_UPI000465472F
UniRef90_K6VKZ4
UniRef90_UPI0003702023
UniRef90_M1ZDJ4
UniRef90_V2ILW0
UniRef90_UPI0003F8B182
UniRef90_B2T854
UniRef90_H0J127
UniRef90_D9V2G4
UniRef90_UPI0003735995
UniRef90_UPI00036C04DA
UniRef90_W9BU65
UniRef90_A4FIL4
UniRef90_W0E3P1
UniRef90_D7cff8
UniRef90_S6H2F0
UniRef90_UPI0002F84D17
UniRef90_A4IK81
UniRef90_F2GBB1
UniRef90_Q01S40
UniRef90_UPI000378182A
UniRef90_UPI0003781C59
UniRef90_UPI0004290A5A
UniRef90_D2ASD9
UniRef90_C6WK13
UniRef90_UPI000465AF35
UniRef90_W8EV01
UniRef90_A4YZ38
UniRef90_UPI0003B46503
UniRef90_UPI000380241E
UniRef90_UPI00041EF934
UniRef90_E1R0Y5
UniRef90_V4L5L5
UniRef90_D9VLZ5
UniRef90_R9MD45 P E
UniRef90_G9PXQ0 P E
UniRef90_UPI0004783473
UniRef90_D1B8R5 E E
UniRef90_R1GYT3
UniRef90_U5HG17
UniRef90_D8RLG8
UniRef90_J2CTG9 E
UniRef90_A0A021W4J7
UniRef90_X6DFJ1
UniRef90_B8HOT9
UniRef90_T1CCW6
UniRef90_E3HJD0
UniRef90_Q1YH25
UniRef90_UPI00016A6B6B
UniRef90_B2TKN2
UniRef90_I4B3S8
UniRef90_FOLWY1
UniRef90_UPI000478822D
UniRef90_D9V113 E D
UniRef90_A3YHM1
UniRef90_K9E0T2
UniRef90_Q2G7N0 E
UniRef90_Q399E1
UniRef90_F8JUB8
UniRef90_A1SH62 E
UniRef90_H1S2M2 Q D
UniRef90_UPI00037A5065
UniRef90_UPI0003B4C04A
UniRef90_A4A7F2
UniRef90_I1M7D9

1 10 20 30 40

K P H P L Q A A W I A E Q V P Q C G Y C Q S G M L M A A A A L L E K T P
 S A D K T G Q A L Q A A W E E F G V P Q C G Y C Q S G M L M S A T A L L H S N P
 UniRef90_A3TR15 D R L H P V Q Q E L A D R G G S Q C G Y C T P G F V C S M A A H H A A G Q
 UniRef90_K9E0U8 D K L H P M Q A A F V K H D G F Q C G Y C T P G F V C S M A A H H A A G Q
 UniRef90_A0QW12 S D G D R P D A V Q R A F M E Q Y G F Q C G F C L P G M L L A A T D L L D R D P
 UniRef90_F4WWU5 H S I Q Q A A L A G K N G S Q C G Y C T P G M V M N L Y S L V Q D K
 UniRef90_UPI0003762C18 D G G G L H P V Q Q A F I E Q D G F Q C G Y C T P G Q V C S A V G M L D A P A
 UniRef90_UPI0004688711 D G R L D P V Q Q A F I D A Q A A Q C G Y C T P G Q V C S A V G M L D A P A
 UniRef90_G5B3Z0 E R I A K S H G S Q C G F C T P G I V M S M Y T L L R N Q P
 UniRef90_E1TEQ1 A S N G V L S P L Q R T F I E H D A F Q C G Y C T P G Q L C S A T A V R R R P T
 UniRef90_UPI0003F9492D I Q K A F V E N W A I Q C G Y C T P G F I M N G F A L L N Q H S
 UniRef90_A8ILU9 E A E A V V Q A A W R Q D V V Q C G Y C T P G Q I M S A V A L L T D N K
 UniRef90_UPI0004768A71 T P H P L Q E A F V R H D G L C G Y C T P G Q I C S A I G M L A E H A
 UniRef90_A4XUE2 I Q D A W L A H E V V Q C G Y C T P G Q I M S A S A L L A R N A
 UniRef90_E3IYC8 A D G L G P A V Q A A F L R D G A V Q C G F C T P G F V V A V T D L L G R R P
 UniRef90_UPI00036DEB62 D R P H P V Q Q A F L D E Q A A Q C G Y C T P G F I M T T A G L L Q R E P
 UniRef90_K0UQU9 G E E L H P V A Q A F H E E D A F Q C G Y C T P G Q I C S A V G M L D E S P
 UniRef90_UPI0003639E3C A D G D V L S P V Q E A F L G R D A Y Q C G Y C T P G Q L C S V T A D V A D A P
 UniRef90_E0MPF6 P D G H P V Q S L M A E N G S S Q C G F C T P G I V C L A L A G L G D G D T
 UniRef90_M4ZZ84 UniRef90_U4Q3X0 A T D D G L H P M Q Q A F L D A Q A F Q C G F C T P G I V T C A S L N Q A Q
 UniRef90_UPI000470A9F1 Q P G N L H P M Q A A F V K F D G F Q C G Y C T P G Q I C S S V A V L L E E Q T
 UniRef90_S4ASL9 D G A E A A A L R D A W V E R D V P C G Y C T P G Q I M S A I A L L R D Q K
 UniRef90_D5WHS1 D G R L H P M Q E E F I R Q D A F Q C G Y C T P G Q I M S A V V G C V R E G H
 UniRef90_F3WZP5 UniRef90_G7DJG3 H P V Q Q A F Q L A A N V S Q C G Y C T P G M V M S A A S L L A R N P
 UniRef90_G5F1G1 A L Q K A W L E L E V V Q C G Y C Q S G Q I M S A A A L L K D M P P
 UniRef90_U2PZ49 F G E A G A V V Q C G F C I P G M V M S G A A L L R A N P
 UniRef90_UPI00034B0EFE R M N P V A Y R L A A N G T Q C G F C T P G F V M N M T E Y L T N R P
 UniRef90_L0DWI0 P E L T P V Q K A L V E E G A I Q C G F C T P G I V A L S A Y L L N A P
 UniRef90_E6N7S3 V A E A Y A R H G A V Q C G Y C T P G F V V A T A S L L S K I T
 UniRef90_E3HND1 A D P V M Q R L R A A F T K H H A L C G Y C T P G M L A T S R D I V L R L P
 UniRef90_S9RSM5 K P D P L Q E A F I D E Q A V Q C G Y C T P G Q I C S A V G M L D E S P
 UniRef90_UPI000368AB8B H R L Q Q A W I A E Q V P C G Y C T P G Q I M A A A A L L K E N P
 UniRef90_B0P5R1 A F T S C G A V Q C G F C T P G M V I S A K G L I D A V P
 UniRef90_X0Z0R4 L Q E S F V R Y G A V Q C G F C T A G M L M A A K G Y L D T N P
 UniRef90_I3CDV6 A V Q T A S A W E K L D V V Q C G Y C Q S G Q I M S A T A L L E R N P
 UniRef90_W1LEC6 V V Q A A W L E K E V V Q C G Y C Q S G Q I M S A T S L L T A N P
 UniRef90_L8EJ56 UniRef90_E8W0Q5 A E G D R L H P L Q S A F L E R D A L Q C G Y C T P G Q I C S A A G M L G E A R
 UniRef90_A3WGL6 D G R A A D A I R E A W I E N Q V P C G Y C T P G Q I C S A V G M L D D A P
 UniRef90_A0A031I6C6 Q G N K L H P V Q E A F V Q C G Y C T P G Q I C S A V G M L D D A P
 UniRef90_I3ZAL3 A E G D R L H P L Q S A F L E R D A L Q C G Y C T P G Q I C S A V G M L D D A P
 UniRef90_UPI00037844F9 P I Q R A F E D K W A F Q C G Y C T P G F I I N C H A L V T Q K I
 UniRef90_E3IFR3 L H A I Q R A F V E H F A F Q C G Y C T P G F I M N A F A L I I E R H P
 UniRef90_B8EKMO UniRef90_R1VZH2 G E L D P I Q E A F L S H S A F Q C G Y C T P G F I M S A T A L L A G N P
 UniRef90_UPI0002628655 E G L G H P L Q E A F V R A D G L Q C G Y C T P G Q I C S A V G M L A E H P
 UniRef90_W3RFV9 P D G H P I Q K A W L A L D V P C G Y C Q T P G Q I M A A A A L L Q A T P
 UniRef90_G5HDT0 G E L D P I Q E A F L S H S A F Q C G Y C T P G F I I A V K S L L N K N P
 UniRef90_R1VZH2 G E L D P I Q E A F L S H S A F Q C G Y C T P G F I I A V K S L L N K N P
 UniRef90_H8H0G3 A P G R R H A L Q Q A W I D E Q V P C G Y C Q S G M L M A A A D L L A R Q P
 UniRef90_B5SJ70 P N L D V I Q E S F I A E G A T Q C G Y C T P G I V S A K A F D K V D T
 UniRef90_E5WNF9 N L H P V Q Q R F V D A A G F Q C G Y C T A G M I V T A S T F D K D Q
 UniRef90_V8CU80 V V Q K A W L D E E V V Q C G Y C Q S G Q I M S A C A L L K Q T P
 UniRef90_C5D0D4 K L H P V Q Q A A M T Q G G S Q C G Y C T P G F V V S L F A E Y Y R
 UniRef90_D7BFW3 N P L L Q K A W I E V E V S Q C G Y C Q P G Q I L A A A A L L N E N P
 UniRef90_I6YUQ3 UniRef90_UPI0003828A93 P D G L H P V Q Q A A F V E H D G Y Q C G Y C T P G Q I C H V T A D L N A P L
 UniRef90_A0A059ISE6 G A L H P V Q Q A W V A H K V A Q C G Y C Q S G Q I M Q A A A L L A Q T P
 UniRef90_UPI0003797BD2 A V D N K L N G L Q A S F H R H H A L Q C G F C T P G F I M L A T S I I E R G V
 UniRef90_10HRM7 A V Q Q A W I A L D V V Q C G Y C Q S G Q I M S A V A L L E R L P
 UniRef90_S3B373 S S D G R P S D V Q C L A E S G S V Q C G F C V P G L A M T V H D L L E G N H
 UniRef90_B1Y1F5 V V Q A A W I L Q D V P C G Y C Q S G Q I M S A C A L L A E K K
 UniRef90_S2Z9P6 Q P D N L S A L Q K A F V S E D G F Q C G Y C T P G Q I M A A V A K V R Q A R
 UniRef90_UPI0004688440 K L H P V Q Q A A F V K H D G Y Q C G Y C T P G Q I C H A S A D L N A R P
 UniRef90_K9DUG5 UniRef90_I2EUL6 H P V Q K A W L E H D V A Q C G Y C Q S G Q I M S A A A L L K S N P
 UniRef90_F5SEE3 UniRef90_D4LU41 P I Q H A F V D Q W A I Q C G Y C T P G Q I L T C Q G L I E K H P
 UniRef90_K4DAL5 H P M Q Q A M V A E Q A I Q C G F C T P G Q I M C T K V L L D V N K
 UniRef90_T0JCD8 L T G Q E A L R Q E H G T Q C G F C T P G M V M E L V E A T A D G E
 UniRef90_B4V606 R D G F H S I H E R F A G F H A S Q C G F C T P G Q I I V I G G A A L L A R N A
 UniRef90_D1AIE7 A F S K T G A V Q C G F C T P G M V I S S K V L L D K N Q
 UniRef90_I3TFH1 N D E L H P V A Q A F C D E D A F Q C G Y C T P G Q I C F V A D D L D A P P
 UniRef90_A0QQA6 V L N P L Q E K L L N G G A V Q C G F C T P G M I M A V L G L L Y E N S
 UniRef90_U2CYN8 D R V Q G Q A V Q Q A W R K L D V A Q C G Y C Q S G Q I M S A T A L L A Q N K
 UniRef90_A9IS83 Q L H P V M Q A A F V K H D G Y Q C G Y C T P G Q I C H V S G D I T A A P
 UniRef90_I4CX16 UniRef90_I2B7U9 H P V Q Q A W I D E D V P C G Y C Q P G M I M A V S A L L A Q S P
 UniRef90_A6FMK3 G V P G K L Q R A F Q R H G A A Q C G I C T P G M L M A A E G L L R R V P
 UniRef90_K5YK5W G G A H P V Q R E M L E R H G S Q C G F C T P G I V M S L Y A R S I G A
 UniRef90_UPI0003B6FA6 E L A P L Q Q A F L D Q D V V Q C G M C F P G L L M A L T P L F E R N Q
 UniRef90_F1Z7U7 A W N E V D V Q C G Y C Q P G Q I I A A A A M L K E N A
 UniRef90_K0D6M8 D E T L H P L Q Q A F I E R D A F Q C G Y C T S G Q I C S G V S L L R E M A
 UniRef90_Q6KZ77 P S N I L K E S F L K N N G L Q C G Y C T P G M I M T S F Y I V N S K
 UniRef90_T0DTV8 A D D R R F Q L L V T A M A E E G A Q C G F C T P G I M M T L W A S S Q A S H
 UniRef90_UPI00047EE2D8 E P G E P S E L Q Q R A F V E C H D G F Q C G Y C T P G Q I C S A A G M L A E A K
 UniRef90_Q1YFX0 E P G N L D T M Q E S F L H H D G Y Q C G Y C T P G Q I M H V T D K L D G Q V
 UniRef90_Q0AXV8 UniRef90_UPI0003B5BADE H P V K V A W I E K Q V P C G Y C Q P G I M L Q A A D F L S R E K
 UniRef90_W7G9Q9 D R L H A M Q A A F V K H D G F Q C G Y C T P G Q I C H V S A A L D A P S
 UniRef90_I4CEK0 A P H G A L H P M Q A A F R E H H A L Q C G Y C T S G M V M M A V D I A R R L G

50 60 70 80

UniRef90_UPI0002FEB801	Q P S D A Q D A A M T N L C R C G T Y Q R V R A A H R A A K T M Q S P	
UniRef90_UPI0003797DB0	H P T E A D I D G A M S G N I L C R C G T Y T R I R A A I Q H V A K	
UniRef90_A3TR15	I G P N G F D L H A V S G N I L C R C G T Y R P R D A	
UniRef90_K9E0U8	Q G S V D E I R E R M S G N I L C R C G A Y S N I D A I K E V	
UniRef90_A0QWII2	N P S A A A I R D A L S G N I L C R C G T Y T N A V R A V Q R A A E L R N Q P P	
UniRef90_F4WWU5	K L T M Q E I E N S F G S G N I L C R C G T Y R P L D A F K G F A S D	
UniRef90_UPI0003762C18	P L D D E E I R E R M S G N I L C R C G T Y R P L D A F K G F A S D	
UniRef90_UPI0004688711	M A T A T Q L R T A L E Y N L C R C G T Y H I E L A A A Q R A V I L N A A S S	
UniRef90_G5B3Z0	E P T I E E I E D A F Q G G N I L C R C G T Y R P L Q G F R T F S Q	
UniRef90_E1TEQ1	Q L S D D E I R E R M S G N I L C R C G A Y A N I V A A I R A A	
UniRef90_UPI0003F9492D	N P D S E T I N D W L S G N I L C R C M G Y A E K A A I K S V	
UniRef90_A8ILU9	K P T D A D I D A A M D G N I V C R C A T Y Q R V R A A I H D A A R R L E A	
UniRef90_UPI0004768A71	A T D E T E I R E R M S G N I L C R C G A Y N G I V D A I K D V T R	
UniRef90_A4XUE2	N P S D S D I D G A M A G N I L C R C G T Y V R R E A I K S A A G Q	
UniRef90_E3IYC8	D A T E G E I R E A L A G N I L C R C G T Y G R L A A A V R A V Q A E L A D R P	
UniRef90_UPI00036DEB62	A P D E S A I Q A A L A E H L C R C G T H R H L R A I R G L A G R	
UniRef90_K0UQU9	E L T N A E I R E R M S G N I L C R C A A Y P N V A A I E K A A Q R	
UniRef90_UPI0003639E3C	D L D D A E I R E R M S G N I L C R C G A Y V N V A A V V R E A A S P E P V	
UniRef90_E0MPF6	A V D E P A V H E A L A G N I L C R C G T Y R P V E A A L A T A	
UniRef90_M4ZZ84	UniRef90_U4Q3X0	S V S E G E I R E R M S G N I L C R C G A Y S N I V E A I V E V A G
UniRef90_UPI000470A9F1	K P T D Q D I D I A M S G N I L C R C A A Y P H V R A A I H D A A A K L G A P	
UniRef90_S4ASL9	A G D D G E I K E W M S G N I L C R C G T Y R V R A A I K Q A A K	
UniRef90_D5WH31	N P S D A D I D A A M A G N I L C R C G T Y H V R A A I Q R A A R A Q R G E E A	
UniRef90_F3WZP5	D P S E E I L R A Q I T N L C R C G I Y P R V E A I Q R A A R A Q R G E E A	
UniRef90_G7DJG3	K P T D D D I G A A M S G N I V C C R C G T Y Q R V R A A I R L A A G	
UniRef90_G5F1G1	N P T E D D V K V A I L K G N I V C C R C G T Y K K I E G I L L A A Q I L R G E	
UniRef90_U2PZ49	N P T S E D I K K A L L R G N I L C R C G T Y K E Q A V V N M A A K I I R G T E V	
UniRef90_UPI00034B0EFE	H A T K A D I E H A L L D G N I L C R C G T Y R S L T G M K T F A K D	
UniRef90_L0DWI0	R L D T E Q V R T F L L G G N I L C R C G T Y A G R R A A A K I S A Q	
UniRef90_E6N7S3	N P S D A E I R E W L R G N I L C R C G T Y V K L K A V V E S L A G D	
UniRef90_E3HND1	D A D E S R V R V E L L S G N I L C R C G T Y V K M V A A V M S V L A E L R D Q P D	
UniRef90_S9RSM5	K P T E A Q V K E A L A S N I L C R C G T Y H M R I V R A I L K A S E	
UniRef90_UPI000368AB8B	K P S D A D I D A T M T N L C R C G T Y N R R R A I K R A A G M S V A E Q A	
UniRef90_B0P5R1	D P T P D Q V R Q A L K N N I L C R C G T Y K K L E A V V L L A A K Y L R G L P V	
UniRef90_X0Z0R4	UniRef90_I3CDV6	E P K K A E I R K A I L S G N I L C R C G T Y K K V E A I Y D V A
UniRef90_W1LEC6	N P S D S D I D T A M G G N I V C C R C A A Y P N V R A A I K E A A K T L	
UniRef90_L8EJ56	K P T D A E I D E A M A G N I L C R C G T Y V R R E A I H S A S A	
UniRef90_E8W0Q5	UniRef90_A3WGL6	L S A D L P R A F K G N I L C R C G T Y R A E D A V R
UniRef90_A0A03116C6	D G D A D E I R E R M S G N I L C R C G A Y P H V D A I E D V A	
UniRef90_I3ZAL3	S P S D A D I D S A M S G N I L C R C A T Y M S R R A I K D A A S K V	
UniRef90_UPI00037844F9	T F D D G E I A E R M S G N I L C C R C A A Y P N V D A I R E V A E	
UniRef90_E3IFR3	N P S E E E I K E A L N S V I L C R C G T H S R F I K A V K N V S E	
UniRef90_B8EKMO	UniRef90_UPI0002628655	D V D D T V I E E W L S S N I L C C R C T S Y Q E I E A V V K S V L Q K Q R
UniRef90_W3RFV9	K P T D E Q I S E M T N L C C R C G T Y N R K A A I K L A A S S T M A G	
UniRef90_G5HDT0	N P T E E E I K D A L L S G N Y I L C R C I S H Y Q V I E A V V K S	
UniRef90_R1VZH2	UniRef90_H8H0G3	E P T K E D I Q K A I R R G N I L C R C G T Y V K I E A V Q L A A K M
UniRef90_B5SJ70	R Q S G E H R I H A L L S G N I L C R C G T Y R P Q D A A H A L G T P P	
UniRef90_E5WNF9	D P S D A D I D A A I T N L C C R C G T Y P R V R T A I K R A A K A L R E A R A	
UniRef90_V8CU80	I P S A E E I K T A L L G G N I L C C R C T G Y T K I K A V Q T A A S K	
UniRef90_C5D0D4	K P N D G E I D S A M S G N I L C C R C G T Y S R R V A I H R A A	
UniRef90_D7BFW3	P G R E G F D L E A L L G G N I L C C R C T G Y R P R D A A Y S L G T P D	
UniRef90_I6YUQ3	N P S D K E I I E E A M N E V L C C R C G T Y N R K K A I K K V V A E	
UniRef90_UPI0003828A93	R L T N A E I L R E R M S G N I L C C R C G A Y S N A E A I S E V A G R	
UniRef90_A0A059ISE6	UniRef90_UPI0003797BD2	E P T D A Q I D D A M Q G N I L C C R C G T Y P R R
UniRef90_10HRM7	M L S R D E I I R E E I S S G V L C C R C T G Y E N I S A I H E	
UniRef90_S3B373	R P S D E D I D L A M A G N I L C C R C A T Y Q R V R A A I H V A A R Q L	
UniRef90_B1Y1F5	UniRef90_S2Z9P6	R P S D E L E T R K A I L S G N I L C C R C S G Y T R G V L D A V R T V V E Q
UniRef90_UPI0004688440	E Q G R D L T E T D L I R N V C C R C G T Y H R I R E A I T A G A K K	
UniRef90_K9DUG5	W P S H E E I I S E R M S G N I L C C R C S A Y P N I V E A I R K A A G E	
UniRef90_I2EUL6	UniRef90_F5SEE3	L L S K A E I L R E R M S G N I L C C R C G A Y P N I D A M T E V A G D
UniRef90_D4LU41	N P T D E E I I D A Y M S G N I L C C R C G T Y L R	
UniRef90_K4DAL5	D A D D D H I I R D W L S S N I L C C R C T G Y E E I E K A V K S V	
UniRef90_T0JCD8	T P S D D E I I R Y A L R N N Y C C R C T G Y V K I M D A V R L A A K I L D	
UniRef90_B4V606	K L T S S E A E K A I A G N I L C C R C T G Y R P T A D A C K S F A A D V D	
UniRef90_D1AIE7	N P T L D E I I K T A L L R G N I L C C R C T G Y I K I F D A V N L A A E I F R	
UniRef90_I3TFH1	I K T L E D A K K A I E G N I L C C R C T G Y V K L R A I V S R	
UniRef90_A0QQA6	V L S E R E I I R E R M S G N I L C C R C A A Y P N V A A I E R A A N R	
UniRef90_U2CYN8	S P N A E D I I R R A I I D G G N I L C C R C T G Y K Q I K S I E	
UniRef90_A9IS83	UniRef90_I4CXI6	Q P S D A D I I D N A M A G N I V C C R C A T Y V R R A A I H E A A R A L
UniRef90_UPI0004688440	K L S V D E M R E R M S G N I L C C R C G A Y S N I D A M S E V A G	
UniRef90_K9DUG5	UniRef90_A6FMK3	P P D S E V V Y Q K I S N I L C C R C A T Y H R I K K A I D R V C A T T K S P G K
UniRef90_F5SEE3	UniRef90_K5YK5W	H P T R P E V V E E A L S G V L C C R C T G Y S K V S A V M D
UniRef90_D4LU41	L G A E Q S V A D C L A G N I L C C R C T G Y G P L A A I I A A L R K L R D A P	
UniRef90_K4DAL5	UniRef90_UPI0003B6FA6E	T P T D E D E I I R A A L T G N N I L C C R C T G Y E Q I S A A L S L R Q P N T G E G A
UniRef90_T0JCD8	UniRef90_F1Z7U7	H P D D A D I I D A G M S G N I L C C R C G T Y P R R A A V H R A A Q L H A E E K A
UniRef90_K0D6M8	N G D P E D I I S E R M S G N I L C C R C G A Y P N V D A I T D V	
UniRef90_Q6KZZ7	UniRef90_T0DTV8	I R D D D E I I K R N L E G N I L C C R C T G Y D G I K S I R E V S R
UniRef90_UPI00047EE2D8	V G Q H P D Y H A I L K N N I L C C R C T G Y Q S L A A A K R V	
UniRef90_Q1YFX0	D G T R E E I I R E R M S G N I L C C R C G A Y V N V E A V R R V A E	
UniRef90_Q0AXV8	E L T D A E I I S E R M S G N I L C C R C S A Y P N V D A I R T A S T K	
UniRef90_UPI0003B5BADE	K P L E G E I I R A A L A G N I L C C R C T G Y N V E A I I L L A A K E G E G G L	
UniRef90_W7G9Q9	N P S E E I I N E V M D N V C C R C G S H P R K K A I L L A A R	
UniRef90_I4CEK0	A F T A E E I I R E R M S G N I L C C R C G A Y S N I E A I Q D V G E	

UniRef90_UPI0002FEB801
UniRef90_UPI0003797DB0
UniRef90_A3TR15
UniRef90_K9E0U8
UniRef90_A0QWI2
UniRef90_F4WWU5
UniRef90_UPI0003762C18
UniRef90_UPI0004688711 Q E
UniRef90_G5B3Z0
UniRef90_E1TEQ1
UniRef90_UPI0003F9492D
UniRef90_A8ILU9
UniRef90_UPI0004768A71
UniRef90_A4XUE2
UniRef90_E3IYC8
UniRef90_UPI00036DEB62
UniRef90_K0UQU9
UniRef90_UPI0003639E3C Q E
UniRef90_E0MPF6
UniRef90_M4ZZ84
UniRef90_U4Q3X0
UniRef90_UPI000470A9F1
UniRef90_S4ASL9
UniRef90_D5WH31
UniRef90_F3WZP5
UniRef90_G7DJG3
UniRef90_G5F1G1
UniRef90_U2PZ49 P E
UniRef90_UPI00034B0EFE
UniRef90_L0DWI0
UniRef90_E6N7S3
UniRef90_E3HND1 P
UniRef90_S9RSM5
UniRef90_UPI000368AB8B
UniRef90_B0P5R1 P Q
UniRef90_X0Z0R4
UniRef90_I3CDV6
UniRef90_W1LEC6
UniRef90_L8EJ56
UniRef90_E8W0Q5
UniRef90_A3WGL6
UniRef90_A0A031I6C6
UniRef90_I3ZAL3
UniRef90_UPI00037844F9
UniRef90_E3IFR3
UniRef90_B8EJKM0
UniRef90_UPI0002628655
UniRef90_W3RFV9
UniRef90_G5HDT0
UniRef90_R1VZH2
UniRef90_H8H0G3 E E
UniRef90_B5SJ70
UniRef90_E5WNF9
UniRef90_V8CU80
UniRef90_C5D0D4
UniRef90_D7BFW3 P E
UniRef90_I6YUQ3
UniRef90_UPI0003828A93
UniRef90_A0A059ISE6
UniRef90_UPI0003797BD2
UniRef90_I0HRM7
UniRef90_S3B373
UniRef90_B1Y1F5
UniRef90_S2Z9P6
UniRef90_UPI0004688440
UniRef90_K9DUG5
UniRef90_I2EUL6
UniRef90_F5SEE3
UniRef90_D4LU41
UniRef90_K4DAL5
UniRef90_T0JCD8
UniRef90_B4V606 A D
UniRef90_D1AIE7
UniRef90_I3TFH1
UniRef90_A0QQA6
UniRef90_U2CYN8
UniRef90_A9IS83
UniRef90_I4CXI6
UniRef90_I2B7U9 E Q
UniRef90_A6FMK3
UniRef90_K5YKW5
UniRef90_UPI0003B6FA6E A
UniRef90_F1Z7U7
UniRef90_K0D6M8
UniRef90_Q6KZZ7
UniRef90_T0DTV8
UniRef90_UPI00047EE2D8
UniRef90_Q1YFX0
UniRef90_Q0AXV8
UniRef90_UPI0003B5BADE
UniRef90_W7G9Q9
UniRef90_I4CEK0

1 10 20 30 40

UniRef90_B0T0A0	V Q E A W K A	I D V P Q	C G Y C Q A G Q I	M S A T A L L A A A P
UniRef90_D9XPK3	G D G L H P L	Q Q A F L D R D A F Q	C G Y C T P G Q I	C S A A A P S G R P V
UniRef90_UP10003755028	S R D G L H A V	H A R F A G F H A P Q	C G Y C Q S G Q I	M A A T A L L S E T A
UniRef90_R7W5N8	A D A D S L H P V	Q Q A W L D L G V P Q	C G Y C Q A G Q I	M A A V A L L E E T P
UniRef90_A6E3D1	K P H P V Q Q A F I A T	A G Q C G Y C L N G M I	M T T A A L I A A N P	
UniRef90_J6J9F1	A K G G K L S H V	Q Q A Y A K S G A V Q	C G F C T P G Q I	M A T T A M L A R E K
UniRef90_B7LF54	L H P V Q Q G F I D E	Q A A Q C G Y C T N G M I	M T L V A L F E R D P	
UniRef90_L0MGY0	S P L Q R A M I D E	Q A A Q C G Y C V S G V V	M T A T A L L A R N S	
UniRef90_W7SVD7	K L H P M Q A A F I K	H D G Y Q C G Y C T P G Q I	C S A V A N I T D A P	
UniRef90_UP100046A44F9	E P G D L H P L Q R A F V	C E D G F Q C G Y C T P G Q I	C S A V G M L A P R I	
UniRef90_J1RHM1	A D P L M A R L R A F T	A H A Q C G Y C T P G M I	M A T A L L A R N S	
UniRef90_K2K7N4	D S G L H A V Q Q A F	I D Q D A F Q C G Y C T P G Q I	C H V T E D L T S A P	
UniRef90_E9T1W2	F A Q A G A V Q C G Y C T P G M I	V I S A K S L L D V N L		
UniRef90_UP10003729964	A E G D R L C D A Q R	V M V E E G G S Q C G Y C T P G F V V T L F A	E Q S D	
UniRef90_B3E0G5	V Q K A W M E A V P Q	C G Y C Q A G Q I M S A T A L L D A N P		
UniRef90_UP1000378F380	V Q Q D A F L R N Y A M Q	C G Y C T H G F M M T D Y D Y L T N V D		
UniRef90_V9SAX1	A D G G P S A L Q Q A W I D E D A I L C	C G Y C Q A G Q I L I A A H A L L Q R H P		
UniRef90_T0ZEL4	D D E M M E K V Q K N F L K H N A F Q C	G F C S P G M L M T T K E I L L N K K		
UniRef90_UP100037F43CC	A I K Q A W Q D N N V P Q	C G Y C Q G Q I M S A I A L V S N N S		
UniRef90_W7QB64	K L T T V Q E A M K A N Y A T C	G F C T P G F V V A L T G F A L S N S		
UniRef90_A8UJM0	K P D D L H P M Q A A F V K H D G Y Q C	G F C T P G Q I C H V T A D L T A S A		
UniRef90_UP1000379FFCD	D D D L M D R L K A A F H R N H A L Q C	G F C T P G V L A T A R D L V I E R L D		
UniRef90_M9RFU5	E L D I C Q T A F L E E G G F C	G Y C T P G M T I T L K A L F E E N P		
UniRef90_E0U0R0	A D G D R L H P Q E A F L A H D A Y Q C	G Y C T P G Q L C S A L G A I E G P V		
UniRef90_B5GKE9	A T D D G L H P V T E A F L A Y D A Y Q C	G Y C T P G Q I C S V T A D L T G E V		
UniRef90_UP100037F15D7	S E N G D H P V Q E A W R D L N V A Q C	G Y C Q A G Q V M Q A A A L V D Q Y D		
UniRef90_A0A017H9C5	H P V Q R G F L D H D G F Q C	G Y C T P G Q I C S A V G M L D D G D		
UniRef90_10H7X3	I V Q Q A F F L A H A V Q C	G Y C T P G Q I C S A V G V L R E A A		
UniRef90_UP1000374D37B	D G E L H P V Q Q A F V D H A L Q C	G Y C T P G Q I C S A T A M L E E S P P		
UniRef90_L8EUR8	D E R N L S D M Q Q N F V K H D G F Q C	G Y C T P G Q I C S A A G M T A A T P		
UniRef90_A0A037XJV2	E D G S P H P L H R S F L D H D G F Q C	G Y C T P G Q I C S A A G M T A A T P		
UniRef90_H8G7B2	D D L H P V Q R A F A D A A G F Q C	G F C T A G G M V I T A S A L T A D Q R		
UniRef90_W9BPL9	A F A A A S G A V Q C	G F C T P G M I V I S G K S L L D R N P		
UniRef90_J7IYR9	N P V I Q A W I E Q V P Q	G Y C T P G M I V I S G K S L L D R N P		
UniRef90_UP100046A7D17	S P D G S D P V Q R A F V K A Q A A Q C	G Y C T P G M I V I S G K S L L D R N P		
UniRef90_I0G9Q3	A A P G E L T P M Q W A F I D R D A F Q C	G Y C T P G M I V I S G K S L L D R N P		
UniRef90_F3S602	A V P D R L H P V Q E A F L A A Q G F Q C	G Y C T P G M I V I S G K S L L D R N P		
UniRef90_X5KD10	N P H P M Q Q A F V R H D G Y Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_B0UBU6	Q D D Y L V R K A A F K R H A L Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_W9H600	A K G G A P H A A Q T L M A E T H A T Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_K0I6U0	H T V Q A V W Q K L D V V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_Q0K113	I D K A Y A D V S A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_K9HJB0	D G A P S P L Q Q A A F V K H D G F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP100035C9F5E	A P D R L S V L Q Q A F R R H H A L Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_U4PPP6	E G E A L H P V Q Q A F I E E Q A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_X7F8F3	A P D G T L H P V Q Q A F V Q E Q A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_V6JR30	D A P L T D L Q R A F H E E H G M Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP10003B5DE20	A V V R A A W S E L D D V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000475B385	E G E A L H P V Q Q A F I E E Q A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_F2J086	A P D R L S V L Q Q A F R R H H A L Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP10002FA32AF	E G E A L H P V Q Q A F I E E Q A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000349C9A4	A P D R L S V L Q Q A F R R H H A L Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP100037B66AA	U N L Q R L Q E S W E E F N V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A3SNX1	D A E A Q R L Q Q A A F E R V D A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_K8W400	D D Y L N V Q Q A D F K K Y N A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000349FB0	K L S P V Q Q A F V E H F S F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_E1CGB4	A D A G D L H P V Q R A F I E R D A F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP10003A9DE00	A D G D R L H P V Q Q A W L D E D V A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A9HI66	S D D P L A T G V R Q A W L E I D V V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_I7Z7U7	D K L H A M Q A A F I K H D G Y Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_W1NDI8	H S V H Q R I A G F H A S Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000373310C	D D Y L N V Q Q A D F K K Y N A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_E6XAU0	N L Q R L Q E S W E E F N V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_I3X5A8	D A E A Q R L Q Q A A F E R V D A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP100036231EA	H P L Q E A W I A E Q V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP100029B3872	D Q Q A F I D K Q A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_H2J867	D D P E Y K K F T E A L L A Q G A D Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_W6WGZ7	A G T Q A D A V R S A W I A H D V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A4BZ23	N L E F L R Q A W S D G N V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A4YPZ2	D A P D P V Q Q A F I T E Q A A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A0LTA9	A L E R G F L D H A Q L Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_K6X3D0	A E A G E L S C F Q K A M K D E H G L Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_G7GR67	D D L H P V Q Q S F V E H F G F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_G8QQU3	F S E A G A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_Q31J46	H P V V Q A W T K L D V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_B1Z5B6	L L Q H A F L A H Q A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000441FDFF	R L H P V Q E R T A X S H G T R C R I C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A0A031JXF0	H P V Q Q A M V A E Q A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000365968B	R G D E L H P V A E A F L D A D A Y Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_U5MPU2	M A D E G A E E Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_S3ASQ1	D E G R P H P L Q E A F H E R D A F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_I1E8Z9	H P V Q Q K R I A E Y N G T C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_Q88K16	A V V Q Q A W L A H E V V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_UP1000467E104	E L D P I Q Q K F I S C Y S F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_J1SPD6	A D A I G K R V V E A W V A N Q V P Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_G6D5F3	Q T R I A A F N G T Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_W0AJB3	D R V G T A V H A A W I K H D V A Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_I1AS89	P E S L L Q T L G R A F V A K G A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_C0INS2	D D L H P M Q R R F A E A A A F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_K6VQ2	D D L H P M Q R R F A E A A A F Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_M1PDS9	P E S L L Q T L G R A F V A K G A V Q C	G Y C T P G M I C S A V G M L D E V A		
UniRef90_A0PLE5	D D L H P M Q R R F A E A A A F Q C	G Y C T P G M I C S A V G M L D E V A		

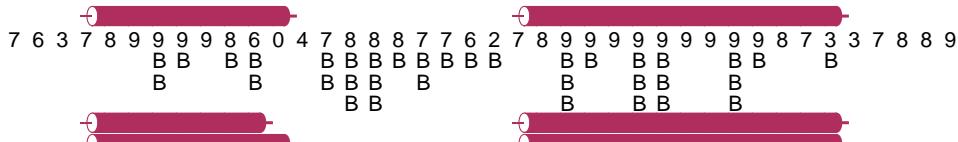
50 60 70 80

UniRef90_B0T0A0	K P T D D E I D A A M N G N L C R C A T Y R R K A K T A S G Q V E A
UniRef90_D9XPK3	P D A A E I R E R L S G N L C R C G A Y P R V E A V E D V
UniRef90_UP10003755028	A P T D D D I D S A M S G N I C C R C N T Y Q R R T A I H T A S E T L K G
UniRef90_R7W5N8	G K T S A D A E R A V V G N L C R C T G Y R P A D A C K S F A A D V D
UniRef90_A6E3D1	D P S E D D I D A A M D G N L C C R C G T Y P
UniRef90_J6J9F1	N P T E D E V R E T L R Y N L C C R C G S H V E L A A V R L A I E
UniRef90_B7LF54	P L T I T E I R R G L A G N L C C R C T G Y Q M I V N T V Q D
UniRef90_L0MGY0	Q A D E Q T I K Q E L A F N L C C R C G T H I E L R A A Q R A
UniRef90_W7SVD7	C P S E C E V R E A L D G N L C C R C G A H N R M V R A V L Q A S Q I E A A
UniRef90_UP100046A44F9	R L E A R E I Q E R M S G N I C C R C G A Y S N I E A I T E V A Q E
UniRef90_J1RHM1	A L T D E E I R E R M S G N I C C R C A A Y P N V A A I R G I A Q
UniRef90_K2K7N4	N A D E T R I R Q E L S G N I C C R C T G Y A G V E A I R D V
UniRef90_E9T1W2	E L T D D E I R E R M S G N L C C R C G A Y P N V A A V R Q V A H E Q A A D
UniRef90_UP10003729964	N P T R L E V K K A I I R G N L C C R C T G Y V K E E A I L Q A A D F F R D L P
UniRef90_B3E0G5	R K E G K V D G S L S G N L C C R C T G Y R P K D A A L R
UniRef90_UP1000378F380	Q P D D D A D I D A A M A G N L C C R C G T Y I R R R A I K N A A A K
UniRef90_V9SAX1	P D A D E D M M K Y A I K N I C C R C T G Y V N I R A T K D L S R S L Q
UniRef90_T0ZEL4	Q P S E A D D D S L P N L C C R C G S Y P R R K A V Q R A A R S K A G K P
UniRef90_UP100037F43CC	K L T R D E I R S E I S G N Y C C R C T G Y Q S V D A I E E
UniRef90_W7QB64	R L D K Q A I K N G M S G N L C C R C G T Y A R E K A I C S V A G
UniRef90_A8UJM0	E N N Y S S N A L D A I S S G N I C C R C T G Y K A E K A A H Q V V V K L E
UniRef90_UP1000379FFCD	S I T S D E I R E R M S G N I C C R C G A Y S N V D A M T E V A G R
UniRef90_M9RFU5	T A D E V R I R R N E L S S G N L C C R C T G Y V G V E S I A Q V I D E R R G L
UniRef90_E0U0R0	Y P T D E D I E E G L A G N L C C R C T G Y G G M R S A C R I R K E L
UniRef90_B5GKE9	P L D E A E I R E R L S G N L C C R C G A Y P H V R A V A E A A R
UniRef90_UP100037F15D7	T L D R T E I A E R M S G N L C C R C A A Y V N I V S A V E D A A
UniRef90_A0A017H9C5	T V T D E D I D A V M S A N L C C R C G T Y P R I R Q A A G R
UniRef90_10H7X3	L L S D A E I R E R M S G N L C C R C G A Y P N M V P A I R Q A A G R
UniRef90_UP1000374D37B	A A G E Q E I R E A L A G N I C C R C T G Y G R I L A A V R D V Q A G R R A P
UniRef90_L8EUR8	Q G D H A E I A E R M S G N L C C R C G A Y V N V
UniRef90_A0A037XJV2	E L T D D E I S E R M S G N I C C R C A A Y P N V D A I R E T A K
UniRef90_H8G7B2	A L D A D E I R E R L S G N L C C R C G A Y Q G V A A V T S V A E A L A G P A T
UniRef90_W9BPL9	A N P E H L K G N G L C C R C T G Y R A T D A
UniRef90_J7IYR9	D P T R E D V K G S I R T N I C C R C T G Y S K E D G I L L A A K M L R
UniRef90_UP100046A7D17	D A D E R R I R I G L S G N L C C R C T G Y V G V R A V Q S V I E A R R A
UniRef90_I0G9Q3	N P T D D E I N Q V M S G N L C C R C G T Y P R R
UniRef90_F3S602	H P D R A A L K E A L R Y N L C C R C G T H V E I M K A A C I A A G L S E G E P
UniRef90_X5KD10	C L S R N E I R E R M A G N I C C R C G A Y D N V A A I E D V A G
UniRef90_B0UBU6	U R R D L G A A L K G N L C C R C T G Y R
UniRef90_W9H600	K G D E A E I S E R M S G N L C C R C S A Y P G V D A I G D V A G
UniRef90_K0I6U0	Q P S E H E V R D M L S G H C C R C T G Y T P V N A V L E V S R
UniRef90_Q0K113	E P A P E D I R A G I T N L C C R C G T Y P R V E R A I L R A A R
UniRef90_K9HJB0	A R D D E S V M D S I A G N L C C R C T G Y R P I L E A A R
UniRef90_UP100035C9F5E	K P T D E D I E K A M D G N V C C R C A T Y V R R A A V H Q A A K E I
UniRef90_U4PPP6	N P T L E E Q I R E G I S S G N L C C R C T G Y N A K I S A E E G K G L
UniRef90_X7F8F3	E L T Q A E L S E R M S G N L C C R C S C Y P G N A A I R E T A G T G D A T
UniRef90_V6JR30	P L T A D E I R E R M S G N I C C R C A A Y P H I V E A I I E D V A G
UniRef90_UP10003B5DE20	K P D E A A I R N G L F R V L C C R C S V Q A R A L K A V Q R A A G
UniRef90_UP1000475B385	D L D E T A V T E Q L D G N L C C R C T G Y L N I K K A A C R A
UniRef90_F2J086	K P T D E D I D A A M D G N V C C R C A T Y A R I R S A I H V A A Q K L E G
UniRef90_UP10002FA32AF	D A T D E Q I K E G L R G L K C C R C G T Q S V M R A V R R A S K A M
UniRef90_UP1000349C9A4	A P D E A Q I R D I L S S G H C C R C T G Y T P I R
UniRef90_UP100037B66AA	E P D D E Q I R E A L A G N L C C R C T G Y Q K I M E A V R M A A E
UniRef90_A3SNX1	A P S D T Q I E D A L G G V C C R C T G Y R K D A V A G R A P R L D G
UniRef90_K8W400	R N P T E I K Q A L N N H C C R C T G Y V R Y Y E A V R D V L A T P G L
UniRef90_UP1000349FB00	E L D A A E V R E R M S G N L C C R C A A Y S N I V A A V L D A
UniRef90_E1CGB4	N I K Y S D I E V A F Q G N Q C C R C T G Y R A I E G Y K T F E E
UniRef90_UP10003A9DE00	E P T D E D I D R E N V C C R C G T Y
UniRef90_A9HI66	H P T D E E I E Q A M A G N I C C R C G T Y R R I R
UniRef90_I7Z7U7	T P S A D E L R E R M S G N L C C R C G A Y S N I A E A M A E V A G
UniRef90_W1NDI8	K L T V S E A E R A I A G N L C C R C T G Y R P I D T C K S F C R D V D
UniRef90_UP1000373310C	N P T E Q D I I N T A M S R N I C C R C G T Y P R I K K A I E S
UniRef90_E6XAU0	R A D R D A V K H A M V G N I C C R C T G Y E R V D A V M E
UniRef90_I3X5A8	H P T P D D V D K A M S N N I C C R C G T A Q R I R A A I L R A A A A M N G A P
UniRef90_UP100036231EA	H P D E A T I R E Y M A T N L C C R C G T H L R I E A I K H V A G A S H G
UniRef90_UP100029B3872	N P T E E E M K E Y L V G N L C C R C T G Y A S Q M R A I K Q F
UniRef90_H2J867	R P T D T D I D T S M T N I C C R C C T Y V R I R A A I H S A S S L M E K S P
UniRef90_W6WGZ7	N P T D N E I D A V M S A N I C C R C G T Y T R I K K A I H K A
UniRef90_A4BZ23	N P T D L E E I K Q A L R Y N L C C R C G A H V E L R A A M R A A G
UniRef90_A4YPZ2	D P S L E E I K Q A L R Y N L C C R C G A H V E L R A A M R A A G
UniRef90_A0LTA9	N A D E D A V R A A L S R N L C C R C G A H Q R V A A I R S A A Q Q L A G N P A
UniRef90_K6X3D0	T V E D T E T E V L I G G H V C C R C T G Y T G I R S A I R K
UniRef90_G7GR67	P D D I E H P R K M K G N L C C R C T G Y R S I R T A I S N A
UniRef90_G8QQU3	E P T L S D V Q K A I K G N I C C R C T G Y K K I E E A I I L L S A R
UniRef90_Q31J46	N L T D E D V Q S A M R N I C C R C G T Y P E I K K A V E L S T E L K R
UniRef90_B1Z5B6	V S D R A S A R A A I I D G V L C C R C T G Y Q K V D A V T E A
UniRef90_UP1000441FDFF	Q P S E E Q L P A A L G G N L C C H C T G Y R P I L A S G G T F C L E S D G C Q
UniRef90_A0A031JXF0	N P S E A V K A A I P N L C C R C G V Q P R V R A I Q R A A E K I D A A P V
UniRef90_UP1000365968B	V L D R H E I A E R M S G N L C C R C G A Y A H V D A V
UniRef90_U5MPU2	N P T E L E I K Q Y L S G N L C C R C T G Y M Q L R A I E K
UniRef90_S3ASQ1	H V T P R E I R E R M S G N I C C R C G A Y P Y I V R A L E D V
UniRef90_I1E8Z9	E P T K Q L V E D N F D G N I C C R C T G Y R
UniRef90_Q88K16	K P D D Q A I D A A M A G N I C C R C A T Y T R I R T A I H S V
UniRef90_UP1000467E104	H P T G E E I R E A L A G N Y C C R C I S H Y T V L E A L D K L A G
UniRef90_J1SPD6	V P S E Q D I A D A M I N L C C R C A T Y N A I K A A V L R A S D R K E D A P
UniRef90_G6D5F3	L S M E L E N S F G S N T C C R C T G Y R P I L D T V K S F A S
UniRef90_W0AJB3	A L D H D E L R E R M S G N L C C R C G A Y N G V A A I
UniRef90_I1AS89	P L T E A T V K D A L G G V L C C R C T G Y R K I A A V L D A S R
UniRef90_C0INS2	Q P T V A E I E S A M A G N C C R C G T Y A R I R A A V A D A A R T L
UniRef90_K6VIQ2	A P T A D E V R H A L R T N M C C R C T G Y Q Q V D G V L L A A D L L R
UniRef90_M1PDS9	N P S R A E V E K E L R F N C C R C T G Y V K V D
UniRef90_A0PLE5	A N L P Q H L K G N L C C R C T G Y R A I L D A L E

UniRef90_B0T0A0
UniRef90_D9XPK3
UniRef90_UPI0003755028
UniRef90_R7W5N8
UniRef90_A6E3D1
UniRef90_J6J9F1
UniRef90_B7LF54
UniRef90_L0MGY0
UniRef90_W7SVD7
UniRef90_UPI00046A44F9
UniRef90_J1RHM1
UniRef90_K2K7N4
UniRef90_E9T1W2
UniRef90_UPI0003729964 P Q
UniRef90_B3E0G5
UniRef90_UPI000378F380
UniRef90_V9SAX1
UniRef90_T0ZEL4
UniRef90_UPI00037F43CC
UniRef90_W7QB64
UniRef90_A8UJM0
UniRef90_UPI000379FFCD
UniRef90_M9RFU5
UniRef90_E0U0R0
UniRef90_B5GKE9
UniRef90_UPI00037F15D7
UniRef90_A0A017H9C5
UniRef90_I0H7X3
UniRef90_UPI000374D37B
UniRef90_L8EUR8
UniRef90_A0A037XJV2
UniRef90_H8G7B2 A Q
UniRef90_W9BLP9
UniRef90_J7IYR9
UniRef90_UPI00046A7D17
UniRef90_I0G9Q3
UniRef90_F3S602
UniRef90_X5KD10
UniRef90_B0UBU6
UniRef90_W9H600
UniRef90_K0I6U0
UniRef90_Q0K113
UniRef90_K9HJB0
UniRef90_UPI00035C9F5E
UniRef90_U4PPP6
UniRef90_X7F8F3
UniRef90_V6JR30
UniRef90_UPI0003B5DE20
UniRef90_UPI000475B385
UniRef90_F2J086
UniRef90_UPI0002FA32AF
UniRef90_UPI000349C9A4
UniRef90_UPI00037B66AA
UniRef90_A3SNX1
UniRef90_K8W400
UniRef90_UPI000349FBD0
UniRef90_E1CGB4
UniRef90_UPI0003A9DE00
UniRef90_A9HI66
UniRef90_I7Z7U7
UniRef90_W1NDI8
UniRef90_UPI000373310C
UniRef90_E6XAU0
UniRef90_I3X5A8
UniRef90_UPI00036231EA
UniRef90_UPI00029B3872
UniRef90_H2J867 E D
UniRef90_W6WGZ7
UniRef90_A4BZ23
UniRef90_A4YPZ2
UniRef90_A0LTA9
UniRef90_K6X3D0
UniRef90_G7GR67
UniRef90_G8QQU3
UniRef90_Q31J46
UniRef90_B1Z5B6
UniRef90_UPI000441FDFF P
UniRef90_A0A031JXF0
UniRef90_UPI000365968B
UniRef90_U5MPU2
UniRef90_S3ASQ1
UniRef90_I1E8Z9
UniRef90_Q88K16
UniRef90_UPI000467E104
UniRef90_J1SPD6
UniRef90_G6D5F3
UniRef90_W0AJB3
UniRef90_I1AS89
UniRef90_C0INS2
UniRef90_K6VIQ2
UniRef90_M1PDS9
UniRef90_A0PLE5

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm

	50	60	70	80
UniRef90_S7V5G3	E P D D A A V	A K A M Q K N L	C R C G T Y T R I A A A V R R A A K E M A G	
UniRef90_UP100037B8869	Q P T D A D I D	D A V M A G C L	C R C M T Y V R I R E	
UniRef90_C5EE14	H P D E E D I I	K E Y L S G N L	C R C S G Y M S Q L R A V K K Y L G R K D G A D V	
UniRef90_A2VUX1	H S D D E I I	R E R M S G N L	C R C G A Y P N I	
UniRef90_T0L0R7	K V D E Q M I K	D Y T T G N L	C R C T G Y V D I K	
UniRef90_W4HNW1	E L T D E E I I	A E R M S G N L	C R C S A Y P G I R Q A A R A A E	
UniRef90_Q1ITN4	Q A G A A D F K	T G L S G N L	C R C G T Y	
UniRef90_H2K635	L A D K P D A I	E G V V G N I	C R C T G Y E P	
UniRef90_B1M9F2	D E V E R V V	T E A L D R H I	C R C T G Y V R Y H Q A V R D	
UniRef90_C61WL7	D L F G G D I G	A A L K N N L	C R C T G Y R G I I E A A E H V L A S K G A V	
UniRef90_UP1000382AC0B	A P T E L Q T	R Q A L C G N L	C R C S G Y R G V L D A V R T V	
UniRef90_B6BB52	S P S D A E E D	E A M Q G N L	C R C G T Y P	
UniRef90_H1PTA6	N P T D E E I I	L H Y L N G N L	C R C S G Y V S Q L R A I K N F M E A E K S	
UniRef90_UP100045E86A8	A D L E R T I A	E A L L D G H L	C R C S G Y V K Y H Q A V R D V	
UniRef90_K2GMK0	D L S D A E I S	E R M S G N L	C R C R A A Y P N I V D A I R A T K E A E	
UniRef90_W4HHW9	T L T D A E I R	R E R M S G N I C C C	C R C G A Y A N I L A A I T Q V A E E	
UniRef90_G8M4K6	D Q I E T T I M	N A L L D G H I	C R C T G Y V R Y Y E A V K D	
UniRef90_B9K110	Q A G E K D I R	A G L E G E N L	C R C T G Y H S I I R G A L N A A C R I R A A	
UniRef90_A0A024YZG4	E P D R E Q I A	E A A L S G H L	C R C G A Y E G I L R	
UniRef90_UP100046D12D1	R T S A N D I E	N S F G S N I C C C	C R C T G Y R S I L D A F Q L F S	
UniRef90_R9MD48	E P T E E E I I	K E Y L A G N L C C C	C R C S G Y E G Q L R G I Q E F L S Y K K G	
UniRef90_UP1000225F7EA	Q P G D E D I A	A S A M V N L C C C	C R C G T Y N A I I A A V R D A A Q	
UniRef90_R6BXD2	D P T D E E I L	E Y L L S G N L C C C	C R C T G Y Q S Q L R S L R	
UniRef90_D5U61	Q G P R D E S	E A F K G N L C C C	C R C T G Y R S I R S L A E A G A E C P R A P A	
UniRef90_H1XVE7	K E N T T E E I K	T A L A G N L C C C	C R C T G Y T K V I E A V R D L A E	
UniRef90_K8PNP9	S P N E S E I R	D V L L S G H L C C C	C R C T G Y T P I I K	
UniRef90_F1LKB5	T P P P N E E V E	E E S L S A G N L C C C	C R C T G Y R P I V D A F R V F A K	
UniRef90_H0TRX9	K P S D Q D I D	L A M M G N L C C C	C R C T G Y T V	
UniRef90_R6QQ81	D P S I E E I I	K E Y L A G N L C C C	C R C S G Y E G Q M R A I Q S Y M K E K G G	
UniRef90_R6K6I1	Y P D E D E I I	K E F L S G N L C C C	C R C S G Y E G Q L R G I M D Y L K V K K A K E A	
UniRef90_H1S5L3	R Q P D E T I T	A A L L N D H I C C C	C R C T G Y V R Y F E A V K D V V I N T P G L V K	
UniRef90_K8XJQ6	P L T E G V V	R E A I S G N I C C C	C R C T G Y Q G I V D A V L D A T S L D	
UniRef90_V6KMP9	A G H P E E I I	R E R M S G N L C C C	C R C G A Y A N I L A A L R G T A V A P R E A	
UniRef90_D8UEG4	V L G R S V I	T R A L D G N L C C C	C R C T G Y R P I V A A C R S L A A E V T D	
UniRef90_UP100037C9848	S P G E P E I	R A A L E P H L C C C	C R C G T H A R I L R A A L R V T T P P A G A	
UniRef90_F7V8B6	D P D E E T I	R E Y L A G N L C C C	C R C S G Y E G Q M R A I R N F L D W K H G R Q T	
UniRef90_UP100046C9AF	Q P S D E D I I	E E G L A G N L C C C	C R C T G T G	
UniRef90_UP100047DAE62	N P T D A D I I	D T A M N G H I C C C	C R C G T Y P	
UniRef90_V8QUG7	D E L E D A I	L K A M N N H I C C C	C R C T G Y V R Y Y E A V R D V V L K T P G L	
UniRef90_E6WN84	H P T D D Q I A	A A M V N L C C C	C R C G T Y N A I S A A I H D V A G K	
UniRef90_A1TU31	H P S E Q E V I	R N E L H H N L C C C	C R C G T H V E I	
UniRef90_K1Q8Q7	G G V T K Q M M E D A T A V I C C C	D A T A V I C C C	C R C T G F R S I L D T M K S Y A E E	
UniRef90_S6D5A4	N D T P D D A	L E G N L C C C	C R C T G Y V K I R A A L E Q	
UniRef90_Q6LQU0	Q P N R A E I I	I D D A L S G L F S R D A G Y Q Q F Y E V V E L A V K R L K D P E H	C R C T G Y V K I R A A L E Q	
UniRef90_F1L7K6	T P T E E Q I I	E E S L G N L C C C	C R C T G Y R P I V D A F R V F S K T N D A L	
UniRef90_F7NJ06	N P S E A D I I	I H Y L T G N L C C C	C R C T G Y L G Q M R A I K K	
UniRef90_K2B3Q6	N P S E E K E V I	I D S L L S G H V C C C	C R C T G Y I P I I E A A Q	
UniRef90_R7MYZ6	A P T E D D I	K E F L S G N L C C C	C R C T G Y V S H M R A I K K	
UniRef90_R4KPY8	N P T E E A I K	H Y L N G N L C C C	C R C T G Y M G Q L R A I K K	
UniRef90_J0PM78	K P S D A Q I I	E A A M V N L C C C	C R C G T Y N A I H A A V H D L A Q K G E A	
UniRef90_B7QK69	Q A S E E Q I I	R D E L R Y N L C C C	C R C G T Y	
UniRef90_Q126A2	P V S V D E V	D N V I A K H I C C C	C R C T G Y V K Y Y Q A V K D	
UniRef90_R6VEQ1	N P T E E Q I I	N E Y L A G N L C C C	C R C S G F M G Q T R S I L K F L K H K K A E K G	
UniRef90_R5TPJ5	H P G E D E I I	K E Y L A G N L C C C	C R C S G Y M G Q M R A I R K Y L A R	
UniRef90_E8RCE0	H P T E E A I N H Y L A G N L C C C	R C C S G Y Q G Q L R A I K H F L E		
UniRef90_L5JZQ8	Q P S E E Q L I	M E A L G G L C C C	C R C T G Y V E I E A A Q	
UniRef90_F4X8W6	D P T D D E I I	R A Y L A G N L C C C	C R C S G Y E G Q L R G I R A Y L D H K K G	
UniRef90_UP10002D9B6A7	N P T D E I I	R H Y L V G N L C C C	C R C S G Y V G H T R A I K K	
UniRef90_W0JL58	N P T L E D V I	K E A L S G V L G R E G L Y P K D I V A V L K A A K M C E	C R C S G Y V G H T R A I K K	
UniRef90_UP10003787B2C	E L D A T E I I	A E R M S G N L C C C	C R C T G Y R P I V D A F R V F R S K T N D A L	
UniRef90_E3GD24	A P T R D D I I	D D A L S G L F S R D A G Y Q Q F Y Q V I E L A V A R K K D P Q A	C R C T G Y R P I V D A F R V F R S K R S K R H	
UniRef90_UP100044053A4	E P T L S Q L I	T D A L G G R Y V C C C	C R C T G Y R P I V D A F R V F R S K R S K R H	
UniRef90_C8PLX5	N P T D E Q I I	R D A Y I G I M C C C	C R C T D I V S I T A A L K Q V C R S K R S K R H	
UniRef90_UP10002F8245A	K P T D E D I I	D A A M I G N L C C C	C R C S T Y V	
UniRef90_W6WM86	Q P T S V E I	D S A M T G N I C C C	C R C G T Y	
UniRef90_D8N2E4	R P S A A E E I	D A A M A G N I C C C	C R C G T Y	
UniRef90_D4CGD1	T P S S E E I I	R E Y L A G N L C C C	C R C T G Y A G Q M R A I R	
UniRef90_R6LWC3	E P D E E Q I I	K E Y L A G N L C C C	C R C S G F V S Q T A S I L K	
UniRef90_K1PAR9	T P T K A D V I	E R A I E G L C C C	C R C T G Y R P I V D A F R V F A K T D D A L	
UniRef90_UP1000472E9C5	F P T D E D I I	D R E I T N I C C C	C R C G T Y	
UniRef90_M4MIH3	R P S D E D I I	A G A M I N L C C C	C R C G T Y	
UniRef90_F1LJS2	P P T E E Q I I	E E S L S A G N L C C C	C R C T G Y R P I V D A F R V F A K T D D A L	
UniRef90_XOPLK9	Q L S R A E I I	R R R G L S G L C C C	C R C T G Y R P I V D A F R V F A K T D D A L	
UniRef90_F1LK90	P P T E E Q I I	E E E C L A G N L C C C	C R C T G Y R S I V D A F R V F A K	
UniRef90_F1LK89	P P S E E E I I	E E E C I A G N L C C C	C R C T G Y R P I V D A F R V F A K T D D A L	
UniRef90_F1LJP0	P P T E E E I I	E E E A L A G N L C C C	C R C T G Y R P I I D S F R V F A K T D D A L Y A	
UniRef90_F1VWB0	E A T D A N I I	D A V M S G N L C C C	C R C T G Y R P I R K A I K L A A T E M K G A P H	
UniRef90_F1LJM8	P P S Q E Q I I	E E E S L S A G N L C C C	C R C T G Y R P I L D A F R V F A K	
UniRef90_K7EFJ7	E P S M E E I I	E N T F R G N Y C C C	C R C T G Y R P I L E G F R T F F A K	



lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

UniRef90_S7V5G3
UniRef90_UP100037B8869
UniRef90_C5EE14 P E
UniRef90_A2VUX1
UniRef90_T0L0R7
UniRef90_W4HNW1
UniRef90_Q1TN4
UniRef90_H2K635
UniRef90_B1M9F2
UniRef90_C6IW7
UniRef90_UP1000382AC0B
UniRef90_B6BB52
UniRef90_H1PTA6 N E
UniRef90_UP100045E86A8
UniRef90_K2GMK0
UniRef90_W4HHW9
UniRef90_G8M4K6
UniRef90_B9K110
UniRef90_A0A024YZG4
UniRef90_UP100046D12D1
UniRef90_R9MD48
UniRef90_UP1000225F7EA
UniRef90_R6BXD2
UniRef90_D5UU61 A
UniRef90_H1XVE7
UniRef90_K8PNP9
UniRef90_F1LKB5
UniRef90_H0TRX9
UniRef90_R6QQ81
UniRef90_R6K6I1
UniRef90_H1S5L3 E D
UniRef90_K8XJQ6
UniRef90_V6KMP9
UniRef90_D8UEG4
UniRef90_UP100037C9848
UniRef90_F7V8B6
UniRef90_UP1000467C9AF
UniRef90_UP100047DAE62
UniRef90_V8QUG7
UniRef90_E6WN84
UniRef90_A1TU31
UniRef90_K1Q8Q7
UniRef90_S6D5A4
UniRef90_Q6LQU0 K Q
UniRef90_F1LK76
UniRef90_F7NJ06
UniRef90_K2B3Q6
UniRef90_R7MYZ6
UniRef90_R4KPY8
UniRef90_J0PM78
UniRef90_B7QK69
UniRef90_Q1Z6A2
UniRef90_R6VEQ1 E
UniRef90_R5TPJ5
UniRef90_E8RCE0
UniRef90_L5JZQ8
UniRef90_F4X8W6
UniRef90_UP10002D9B6A7
UniRef90_W0JL58
UniRef90_UP10003787B2C
UniRef90_E3GD24
UniRef90_UP100044053A4
UniRef90_C8PLX5 E K
UniRef90_UP10002F8245A
UniRef90_W6WM86
UniRef90_D8N2E4
UniRef90_D4CGD1
UniRef90_R6LWC3
UniRef90_K1PAR9
UniRef90_UP1000472E9C5
UniRef90_M4MIH3
UniRef90_F1LJS2
UniRef90_X0PLK9
UniRef90_F1LK90
UniRef90_F1LK89
UniRef90_F1LJP0 D
UniRef90_F1VWB0 A
UniRef90_F1LJM8
UniRef90_K7EFJ7

lupas_21
lupas_14
lupas_28
jnet
conf 9 9
sol25
sol5
sol0
jhmm
jpssm

